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OM nucleic - nucleic search, using sw model

Run on: May 15, 2005, 10:35:37 ; Search time 13.1953 Seconds
(without alignments)
9421.101 Million cell updates/sec

Title: US-10-764-075-2

Perfect score: 21

Sequence: 1 atgaccacacaaggccatgg 21

Scoring table: IDENTITY NUC Gapop 10.0 , Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0\$
Maximum Match 100\$
Listing first 45 summaries

Database : N_Geneseq_16Dec04:*

1: geneseqn1980s:*

2: geneseqn1990s:*

3: geneseqn2001as:*

4: geneseqn2001as:*

5: geneseqn2001bs:*

6: geneseqn2002as:*

7: geneseqn2002bs:*

8: geneseqn2003as:*

9: geneseqn2003bs:*

10: geneseqn2003cs:*

11: geneseqn2003ds:*

12: geneseqn2004as:*

13: geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	21	100.0	29751	12	ADD39000	Adj39000 SARS coro
2	17.8	84.8	1560	6	ABV78222	Abv78222 Human MMP
3	17.8	84.8	1560	6	ABZ35798	Abz35798 Human MMP
4	17.8	84.8	1560	6	ABX10041	Abx10041 Human pol
5	17.8	84.8	1560	6	ABL91763	AbL91763 Human pol
6	17.8	84.8	1818	6	ABV78191	Abv78191 Human MT4
7	17.8	84.8	1818	6	ABZ35767	Abz35767 Human MT4
8	17.8	84.8	1818	6	ABX10010	Abx10010 Human MT4
9	17.8	84.8	1818	6	ABL91732	AbL91732 Human pol
10	17.8	84.8	2295	3	Aaa13389	Aaa13389 Human MT4
11	17.8	84.8	2305	4	AAA28234	Aaa14351 Human MT4
12	17.8	84.8	2306	10	ADB84832	Aab28234 Nucleotid
13	17.8	84.8	2423	3	AAA14340	Ace84832 Farnesyld
14	17.8	84.8	2423	8	ABZ20920	Aaa14340 CDNA enco
15	17.8	84.8	2423	8	ABZ20920	Abz20920 MT4 MMP C
16	17.8	84.8	2438	3	AAA13377	Aaa13377 Human MT4
17	17.8	84.8	2438	10	ACF63409	Acf63409 Human MMP
18	17.8	84.8	2438	12	ADK14165	Adk14165 Human aut
19	17.8	84.8	2438	12	ADO28632	Ado28632 Human MMP
20	17.8	84.8	2438	12	ADQ19326	Adq19326 Human sof

ALIGNMENTS

21	17.8	84.8	3007	12	ADQ23578	Human soft
22	17.4	82.9	3003	11	ADM1725	Human cDNA
23	17.4	82.9	692	10	ADU124806	Intestina
C	24	16.8	80.0	74	ACD95453	Human col.
C	25	16.8	80.0	74	ACD93726	Human col.
C	26	16.8	80.0	224	ABX88992	Corn ear-
C	27	16.8	80.0	270	ABV56477	Human pan
C	28	16.8	80.0	415	Aax3910	Streptoco
C	29	16.8	80.0	451	ADD71720	Human uri.
C	30	16.8	80.0	487	AAZ26487	S. pneumo
C	31	16.8	80.0	630	ADQ57025	Novel can
C	32	16.8	80.0	890	ABX07482	S. pneumo
C	33	16.8	80.0	891	ADM91971	Adm91971
C	34	16.8	80.0	894	AAS55733	Streptoco
C	35	16.8	80.0	894	ACA505075	Prokaryot
C	36	16.8	80.0	978	ADD71721	Human uri.
C	37	16.8	80.0	1222	AAC59283	Human sec
C	38	16.8	80.0	1333	AAC51772	Human bea
C	39	16.8	80.0	1446	ADQ07809	Human pol.
C	40	16.8	80.0	1792	ADD71722	Human uri.
C	41	16.8	80.0	1792	ADL126142	Human cDN
C	42	16.8	80.0	1814	ADP24393	Adp24393
C	43	16.8	80.0	1834	ADD32038	Ad32038
C	44	16.8	80.0	2446	AAX591852	Aax89852
C	45	16.8	80.0	2488	AAF44675	Novel pro

RESULT 1
ADD39000
ID ADD39000 standard; DNA; 29751 BP.
XX
AC ADD39000;
XX
XX DT 06-MAY-2004 (first entry)
XX DB SARS coronavirus nucleotide sequence.
XX KW small interfering RNA; siRNA; modified ribonucleotide; viral inhibition; hepatitis C virus; HCV; hepatitis C;
KW viral replication inhibition; hepatitis A virus; hepatitis A virus;
KW antiinflammatory; hepatotropic; virucide; hepatitis E virus; Ebola virus; influenza virus;
KW rotavirus; reovirus; retrovirus; poliovirus; human papilloma virus;
KW metapneumovirus; coronavirus; viral infection; gene; ds;
OS SARS coronavirus.
XX PN WO2004011647-A1.
XX PD 05-FEB-2004.
XX PF 25-JUL-2003; 2003WO-US023104.
XX PR 26-JUL-2002; 2002US-0398605P.
XX PA (CHIR) CHIRON CORP.
XX PI Han J, Seo MY, Houghton M;
XX XX DR WPI ; 2004-143862/14.
PT New RNase resistant small interfering RNA (siRNA), useful for treating viral
PT infections, e.g., hepatitis C, influenza virus or coronavirus infection.
XX PS Example 10: Fig 3: 74pp; English.
XX CC The present invention describes a small interfering RNA (siRNA) which
CC comprises a modified ribonucleotide, where the siRNA is resistant to
CC RNase and retains the ability to inhibit viral replication. Also
CC described: (1) inactivating a virus in a patient; (2) making a modified
CC siRNA that targets a nucleic acid sequence in a virus; (3) a double-

CC stranded RNA molecule of 10-30 nucleotides that inhibits replication of hepatitis C virus (HCV); (4) inducing targeted RNA interference toward HCV in hepatic cells; (5) inhibiting replication of HCV; (6) a vector comprising a DNA segment encoding the RNA molecule; (7) a host cell comprising the vector of (6); (8) inhibiting replication of HCV in cells carrying HCV; (9) treating hepatitis C in a subject; (10) a modified siRNA molecule comprising a double-stranded RNA molecule of 10-30 nucleotides in length, which mediates RNA interference toward a target agent or virus and is linked to at least one receptor-binding ligand; and (11) inducing targeted RNA interference in a patient. The modified siRNA molecules have antiinflammatory, hepatotropic and virucide activities. The modified RNA molecules are useful for inactivating virus in mammalian cells. The siRNAs are useful for treating hepatitis C virus, hepatitis A virus, hepatitis D virus, hepatitis E virus, Ebola virus, influenza virus, rotavirus, reovirus, retroviruses, poliovirus, human papilloma virus, metapneumovirus or coronavirus infections. The methods of the invention can be used to correct or compensate for cellular physiological abnormalities involved in conferring susceptibility to viral infections in patients and/or alleviate symptoms of a viral infection in patients. The present sequence represents the SARS coronavirus nucleotide sequence, which is used in an example from the present invention.

XX Sequence 29751 BP; 8478 A; 5941 C; 6188 G; 9144 T; 0 U; 0 Other; SQ Query Match Score 100.0%; Score 21; DB 12; Length 29751; Best Local Similarity 100.0%; Pred. No. 3-4; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0; XX Qy 1 ATGACCACACAGGCCAGATGG 21 Db 29398 ATGACCACACAGGCCAGATGG 29418

RESULT 2 ABV78222 standard; DNA; 1560 BP.
XX DT 15-NOV-2002 (first entry)
XX DE Human MMP17 DNA SEQ ID NO 106.
XX RNA inhibition; dsRNA; gene expression inhibitor; oncogene; cytostatic; KW protoacide; gene; ds.
XX OS Homo sapiens.
XX PN WO200255693-A2.
XX PD 18-JUL-2002.
XX PF 09-JAN-2002; 2002WO-EP000152.
XX PR 09-JAN-2001; 2001DE-0100586.
PR 26-OCT-2001; 2001DE-0105520.
PR 29-NOV-2001; 2001DE-0105841.
PR 07-DEC-2001; 2001DE-01060151.
XX (RIBO-) RIBOPHARMA AG.
XX P2A Kreutzer R, Limmer S, Rost S, Hadwiger P;
XX DR; 2002-550671/63.
XX P2A Kreutzer R, Limmer S, Rost S, Hadwiger P;

XX Inhibiting expression of target gene, useful e.g. for inhibiting oncogenes, by administering double-stranded RNA complementary to the target and having an overhang.
XX Claim 10; Page 176; 203pp; German.
XX The invention relates to inhibiting expression of a target gene in a cell by introducing an inhibitory RNA (dsRNA) having a double-stranded

CC structure of at most 49 consecutive bases. At least part of one strand (as) of dsRNA is complementary to (1) and at least one end of dsRNA CC has an overhang of 1-4 nucleotides. The method is used to inhibit the CC expression of a wide range of genes, e.g. oncogenes, cytokine genes etc. CC in humans, also genes in Plasmodium or in viruses or viroids that are CC pathogenic for humans, animals or plants. Introducing an overhang into CC dsRNA greatly increases effectiveness for inhibiting gene expression, CC both in vivo and in vitro and also increases stability and thus the CC effective concentration inside the cell. The present sequence is that of CC a gene related to the invention.
XX Sequence 1560 BP; 275 A; 549 C; 479 G; 257 T; 0 U; 0 Other; SQ Query Match Score 84.8%; Score 17.8; DB 6; Length 1560; Best Local Similarity 90.5%; Pred. No. 87; Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0; XX Qy 1 ATGACCACACAGGCCAGATGG 21 Db 1112 ATGACCACACAGGCCAGATGG 1132

RESULT 3 ABZ35798 standard; DNA; 1560 BP.
ID ABZ35798
XX AC ABZ35798;
XX DT 07-FEB-2003 (first entry)
XX DE Human MMP17 polynucleotide SEQ ID NO 106.
XX Double stranded RNA; dsRNA; RNAi; RNA inhibition; cytostatic; virucide; KW protoacide; gene expression; antisense; tumour; infection; Plasmodium; KW virus; viroid; anti-GFP; human; HIV; human immunodeficiency virus; KW Hepatitis C virus; human papilloma virus; gene; ds.
XX Homo sapiens.
OS XX DE10100588-A1.
PN XX PD 18-JUL-2002.
XX PP 09-JAN-2001; 2001DE-01000588.
XX PR 09-JAN-2001; 2001DE-01000588.
XX PA (RIBO-) RIBOPHARMA AG.
XX PI Kreutzer R, Limmer S, Rost S, Hadwiger P;
XX WPI; 2002-683450/74.
XX The invention relates to inhibiting expression of a target gene in a cell by introducing at least two oligoribonucleotides (dsRNA and II), both CC with a double-stranded (ds) structure of at most 49 sequential nucleotide CC pairs. At least part of one strand (S1, S2) of the ds structures in each CC of dsRNA and II are complementary to regions in the target gene. The CC method uses antisense inhibition of gene expression using double stranded CC RNA inhibition (RNAi). The method is particularly used to treat tumours CC or infections, especially by Plasmodium or viruses/viroids (pathogenic on CC humans, animals or plants). The method provides more effective inhibition CC of expression than known methods using a single dsRNA, even at very low CC concentrations. When dsRNA has at least one unpaired nucleotide at the CC end, stability (and thus effective concentration in the cell) is improved CC and efficiency can be increased further by pretreating the cells with CC interferon. The present sequence is that of a target DNA of the invention CC

XX SQ Sequence 1560 BP; 275 A; 549 C; 479 G; 257 T; 0 U; 0 Other;

Query Match 84.8%; Score 17.8; DB 6; Length 1560;
Best Local Similarity 90.5%; Pred. No. 87;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGACCACACAAGGCAGATGG 21
Db 1112 ATGACCACAGGCACTGG 1132

RESULT 4
ABX10041 ID ABX10041 standard; DNA; 1560 BP.

XX AC ABX10041;

XX DT 23-JAN-2003 (first entry)

XX DE Human MMP17 DNA Fragment SEQ ID 106.

XX KW Oligoribonucleotide; interferon; oncogene; cytokine; Id; developmental;

XX KW prion; inhibition; human; ds.

XX OS Homo sapiens.

XX PN DE10100587-C1.

XX PD 21-NOV-2002.

XX PR 09-JAN-2001; 2001DE-010000587.

XX PR 09-JAN-2001; 2001DE-010000587.

XX PA (RIBO-) RIBOPHARMA AG.

XX PI Kreutzer R, Limmer S, Rost S, Hadwiger P;

XX DR WPI; 2002-270454/32.

XX PT Inhibiting gene expression in cells, useful for e.g. treating tumors, by introducing double-stranded complementary oligoRNA having unpaired terminal bases.

XX PS Claim 13; Page 78; 104pp; German.

XX CC The invention relates to a method for inhibiting expression of a target gene (ABL91658-ABL9179) in a cell by introducing at least one oligoribonucleotide that has a double-stranded structure consisting of at least one strand

CC most 49 sequential nucleotide pairs, with least part of one strand complementary with the target gene and has at least one end a single-stranded segment of 1-4 nt. The method provides oligoribonucleotides for antisense inhibition of gene expression useful e.g. for treating tumours but the oligoribonucleotides may also be directed against genes present

CC in pathogens (e.g. Plasmodium or viruses/viroids, pathogenic on humans, animals or plants) or against cytokine, Id, development or prion genes.

CC The method provides more effective inhibition of gene expression than use of known oligonucleotides, probably because the unpaired overhang

CC increases stability and thus intracellular concentration

XX SQ Sequence 1560 BP; 275 A; 549 C; 479 G; 257 T; 0 U; 0 Other;

CC This invention describes a novel method for inhibiting expression of a target gene by introducing into the cell that contains the target gene at least one oligoribonucleotide (dsRNA) that has a double-stranded (ds) structure of not more than 49 consecutive nucleotides (nt), where at

CC least a segment of one strand of the ds structure is complementary with the target gene and the cells are treated with interferon before introduction of dsRNA. The method is used to inhibit expression of

CC target genes, particularly oncogenes, cytokine genes, Id (not defined) protein genes, developmental or prion genes, or genes expressed in

CC pathogenic organisms (particularly plasmida) or in viruses or viroids (pathogenic in humans, animals or plants). Treating the cells with

CC interferon greatly increases the extent to which dsRNA can inhibit

CC expression of the target genes, and the effect is even greater when dsRNA are modified to increase their stability. ABX0936-ABX10075 represent

CC gene fragments used to illustrate the method of the invention

XX SQ Sequence 1560 BP; 275 A; 549 C; 479 G; 257 T; 0 U; 0 Other;

Query Match 84.8%; Score 17.8; DB 6; Length 1560;
Best Local Similarity 90.5%; Pred. No. 87;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGACCACACAAGGCAGATGG 21
Db 1112 ATGACCACAGGCACTGG 1132

RESULT 5

ABL91763 ID ABV78191 standard; DNA; 1560 BP.

XX AC ABV78191;

XX DT 15-NOV-2002 (first entry)

XX DE Human MT4MMP DNA SEQ ID NO 75.

XX RNA inhibition; dsRNA; gene expression inhibitor; oncogene; cytostatic;

Disclosure; Page 55; 98pp; German.

This invention describes a novel method for inhibiting expression of a target gene by introducing into the cell that contains the target gene at least one oligoribonucleotide (dsRNA) that has a double-stranded (ds) structure of not more than 49 consecutive nucleotides (nt), where at least a segment of one strand of the ds structure is complementary with the target gene and the cells are treated with interferon before introduction of dsRNA. The method is used to inhibit expression of target genes, particularly oncogenes, cytochrome genes, 1d (not defined) protein genes, developmental or prion genes, or genes expressed in pathogenic organisms (particularly plasmida) or in viruses or viroids (pathogenic in humans, animals or plants). Treating the cells with interferon greatly increases the extent to which dsRNA can inhibit expression of the target genes, and the effect is even greater when dsRNA are modified to increase their stability. ABX0936-ABX10075 represent gene fragments used to illustrate the method of the invention.

RESULT 9
BL91732 ID ABL91732 standard; DNA; 1818 BP.
DB 1370 ATCACCAACGAGCAGATGG 1390

Homo sapiens.
DE10100586-C1.
11-APR-2002.

XX 09-JAN-2001; 2001DE-01000586.
XX (RIBO-) RIBOPHARMA AG.
XX Kreutzer R, Littner S, Rost S,
XX Hadwiger P;

Inhibiting gene expression in cells, useful for e.g. treating tumors, by introducing double-stranded complementary OligoRNA having unpaired terminal bases.

Claim 13; Page 53-54; 104PP; German.

The invention relates to a method for inhibiting expression of a target gene (ABL91658-ABL9179) in a cell by introducing at least one oligoribonucleotide that has a double-stranded structure consisting of at most 49 sequential nucleotide pairs, with at least part of one strand complementary with the target gene and has at least one end a single-stranded segment of 14 nt. The method provides oligoribonucleotides for antisense inhibition of gene expression useful e.a. for treating tumors

but the oligoribonucleotides may also be directed against genes present in pathogens (e.g. Plasmodium or viruses/virions, pathogenic on humans, animals or plants) or against cytokine, Id, development or Prion genes. The method provides more effective inhibition of gene expression than use of known oligonucleotides, probably because the unpaired overhang increases their intracellular concentration.

Score	-10.00	Score	-10.00	Score	-10.00	Score	-10.00	Score
Best Local Similarity	90.5%	Pred.	No. 89	2	Indels	0;	Gaps	0
Matches	19;	Conservative	0;	Mismatches	2;			
Qy								
Ddb								
	1	ATGACCACACAAGCAGATGG	21					
	1370	ATGACCACAGGAGCATGG	1390					

RESULT 1.0
AAA13389 standard; DNA; 2295 BP.
IID AAA13389

AAA13389;
AAC

DT 28-JUL-2000 (first entry)
XX Human MT4-MMP matrixmetalloprotease nucleotide sequence.
DE XX

MATRIX metalloprotease; MIF-1/MMP; treatment; autoimmunne disease; hepatitis; chronic rheumatoid arthritis; asthma; atrohrosis dermoris; atrophic dermatitis; psoriasis; contact dermatitis; hair loss; nephritis;

Homo sapiens.
WO200018900-A1.

XX PD 06-APR-2000.

XX	29-SEP-1999;	99WO-JP005249.
XX	29-SEP-1998;	98JP-00276358.
PR	29-SEP-1998;	98JP-0029105.

XX PA (SEIKI/) SEIKI M.

Seiki M;
PI

WPI; 2000-293141/25.

Physiologically-active transmembrane matrix metalloprotease polypeptide, useful in screening inhibitors and activators for treating e.g. arthrosis

खलीजमारा, अस्सी और कालीगंग।

Mbilia continua [who human mental material] (MMA - MMA 2)

CC nucleotide sequence. The invention relates to a mammalian transmembrane
CC polypeptide, its variants and the DNA sequences encoding them. Also
CC included in the invention is a vector comprising the MMP DNA molecules,
CC and cells transformed using the vector. The protein, DNA and antibodies
CC directed against the polypeptide are useful in screening inhibitors and
activators for use in treating arthrosis deformans, chronic rheumatoid
arthritis, asthma, autoimmune diseases, atrophic dermatitis, psoriasis,
CC contact dermatitis, hair loss, ischaemic diseases, immune reaction
CC accompanying organ transplant, hepatitis, nephritis, pancreatitis,
arteriosclerosis, leukaemia, malignant tumours, wounds, corneal ulcers,
tissue damage or inflammation accompanying leukocytic infiltration,
CC together with brain disorders during cerebral palsy, Alzheimer's
disease, dementia, multiple sclerosis, Parkinson's disease or brain
CC disease.

CC tumours. The DNA can also be incorporated into a suitable vector for use
 CC in gene therapy
 XX Sequence 2295 BP; 401 A; 807 C; 729 G; 358 T; 0 U; 0 Other;
 SQ Score 17.8; DB 3; length 2295;
 Query Match 84.8%;
 Best Local Similarity 90.5%;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 ATGACCACAGGCAGATGG 21
 Db 1341 ATGACCACAGGCAGATGG 1361

RESULT 11
 AAIA1451 standard; DNA; 2295 BP.
 ID AAIA1451
 XX
 AC AAA1451;
 XX
 DT 15-AUG-2000 (first entry)
 XX Human MT4-MMP (2) gene fragment, used as a probe.
 DE XXX
 Matrix metalloprotease; MT4-MMP (2); transmembrane; human; antibody;
 KW drug screening; diagnosis; arthrosis deformans; rheumatoïd arthritis;
 KW asthma; autoimmune disease; atopic dermatitis; skin disorder;
 KW ischaemic disorder; arteriosclerosis; cancer; tissue damage;
 KW inflammatory disorder; neurological disorder; probe; ss.
 XX OS Homo sapiens.
 XX PN WO200018805-A1.
 XX PD 06-APR-2000.
 XX PF 29-SEP-1999; 99WO-JP005350.
 XX PR 29-SEP-1998; 98JP-00291501.
 XX PR 29-SEP-1998; 98JP-00291513.
 XX PA (KYOWA HAKKO KOGYO KK.
 XX PI Hanai N, Furuya A;
 XX WPI: 2000-293115/25.
 XX PT Antibody immunospecific for transmembrane matrix metalloprotease polypeptide, useful in screening of inhibitors and activators as drugs for, and for diagnosis of e.g. arthrosis deformans and asthma.
 XX PS Example 1; Page 134-137; 152pp; Japanese.

XX The invention relates to antibodies against the novel murine and human transmembrane matrix metalloproteases MT4-MMP (2) (AYY90502 and AYY90503) and MT5-MMP (AYY90504 and AYY90505). The antibodies are useful for the diagnosis and screening of inhibitors and activators useful for treating or preventing a wide variety of medical conditions, such as arthrosis deformans, rheumatoid arthritis, asthma, autoimmune diseases and atopic dermatitis. The anti-MT5-MMP antibodies may additionally be used to diagnose and screen therapeutic or prophylactic agents for conditions affecting the brain, such as cerebral stroke and Alzheimer's disease. The antibodies of the invention may also be used for the prevention, diagnosis and treatment of psoriasis, contact dermatitis, hair loss, ischaemic diseases, immune reaction accompanying organ transplant, hepatitis, nephritis, pancreatitis, arteriosclerosis, leukaemia, malignant tumours, wounds, corneal ulcers, tissue damage or inflammation accompanying leukocytic infiltration, dementia, multiple sclerosis, Parkinson's disease or brain tumour. The present sequence represents a fragment of the human MT4-MMP (2) gene used as a probe in an exemplification of the invention to screen a murine cDNA library for a murine MT4-MMP (2) cDNA clone

SQ Sequence 2295 BP; 401 A; 807 C; 729 G; 358 T; 0 U; 0 Other;
 Query Match 84.8%;
 Best Local Similarity 90.5%;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 ATGACCACAGGCAGATGG 21
 Db 1341 ATGACCACAGGCAGATGG 1361

RESULT 12
 AAH28234 standard; cDNA; 2306 BP.
 ID AAH28234;
 XX AC AAH28234;
 XX DT 05-SEP-2001 (first entry)
 XX Nucleotide sequence of matrix metalloproteinase-17.
 DE XX
 KW Growth factor; protein inhibitor; protease; damaged tissue;
 KW platelet-derived growth factor; pdGF; fibroblast growth factor; FGF;
 KW connective tissue derived growth factor; CTGF; chrysalin; VEGF;
 KW keratinocyte-derived growth factor; KGF; epidermal growth Factor; EGF;
 KW transforming growth factor-beta; TGF-beta; matrix metalloproteinase; MMP;
 KW granulocyte macrophage colony stimulating factor; GM-CSF; uPA;
 KW vascular endothelial growth factor; VEGF; uPA;
 KW dermal ulcer; wound; ss.
 XX OS Homo sapiens.
 XX FH Location/Qualifiers
 XX 233 .119/2
 XX /*tag= a
 XX /product= "MMP-17"
 XX FT
 XX FT
 XX FT
 XX XX
 XX PN WO200149309-A2.
 XX XX
 XX PD 12-JUL-2001.
 XX XX
 XX PF 21-DEC-2000; 2000WO-IB001935.
 XX XX
 XX PR 29-DEC-1999; 99GB-00030768.
 XX XX
 XX PA (PFIZ) PFIZER LTD.
 XX PA (PFIZ) PFIZER INC.
 XX PT Composition for the treatment of damaged tissue i.e. chronic wounds and dermal ulcers comprises an inhibitor agent i.e. a protease and a growth factor.
 XX PI Davies MJ, Huggins JP, McIntosh FS, Occleston NL;
 XX DR WPI: 2001-418351/44.
 XX DR P-PSDB; AAB84619.
 XX Disclosure; Page 567; 57pp; English.
 XX The specification describes a pharmaceutical composition, comprising a growth factor, an inhibitor agent, i.e. a protease. The inhibitor agent inhibits the action of at least one specific adverse protein, i.e. a protease, that is upregulated in a damaged tissue such as a wound environment. Growth factors which are included in the composition of the invention are platelet-derived growth factor (PDGF), fibroblast growth factor (FGF), connective tissue derived growth factor (CTGF), keratinocyte-derived growth factor (KGF), transforming growth factor-beta (TGF-beta), granulocyte macrophage colony stimulating factor (GM-CSF), epidermal growth factor (EGF), vascular endothelial growth factor (VEGF), and chrysalin. Inhibitors which are included in the composition of the invention include inhibitors of urokinase-type plasminogen activator (uPA) and matrix metalloproteinase (MMP). The composition is useful for the treatment of chronic damaged tissue, i.e. wounds and dermal ulcers.

CC The present sequence encodes a human MMP-17, and is used to produce the
CC composition of the invention

XX Sequence 2306 BP; 402 A; 810 C; 735 G; 359 T; 0 U; 0 Other;

SQ Score 17.8%; Best Local Similarity 90.5%; Pred. No. 92; Length 2306;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGACCACAAAGGGAGATGG 21

Db 1344 ATGACCACAGGAGCATGG 1364

RESULT 13

ID AD884832 Standard; DNA; 2306 BP.

XX AD884832;

XX DT 29-JAN-2004 (first entry)

DS Farnesyl transferase inhibitor modulated leukemia associated gene #51.

XX KW ss; cytostatic; farnesylyl transferase inhibitor; gene expression;

KW quinolone; leukemia; cancer.

XX Homo sapiens.

OS WO2003038129-A2.

PN XX

PD 08-MAY-2003.

XX PP 30-OCT-2002; 2003WO-US034784.

PR 30-OCT-2001; 2001US-0328997P.

PR 30-OCT-2001; 2001US-0340081P.

PR 30-OCT-2001; 2001US-0340938P.

PR 30-OCT-2001; 2001US-0341012P.

PA (ORTH) ORTHO CLINICAL DIAGNOSTICS INC.

XX PI Raponi M;

XX DR WPI; 2003-513497/48.

XX PT Determining whether a patient will respond to treatment with a farnesyl transferase inhibitor, by analyzing the expression of gene that is differentially modulated in the presence of the inhibitor.

XX Disclosure: SEQ ID NO 51; 346pp; English.

CC The invention relates to a method of determining whether a patient will respond to treatment with a farnesyl transferase inhibitor (FTI), by analyzing the expression of gene that is differentially modulated in the presence of an FTI. The method is useful for determining whether a patient will respond to treatment with a PTI such as (B)-6-(amino(4-chlorophenyl)(1-methyl-1H-imidazol-5-yl)methyl)-4-(3-chlorophenyl)-2-(1H)quinolinone, monitoring the therapy of a patient, treating a patient with leukaemia with FTI if the analysis indicates that the patient will respond. This sequence corresponds to a gene whose expression may be modulated in the presence of FTI.

XX Sequence 2306 BP; 402 A; 810 C; 735 G; 359 T; 0 U; 0 Other;

SQ Score 17.8%; Best Local Similarity 90.5%; Pred. No. 92; Length 2306;

Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGACCACAAAGGGAGATGG 21

Db 1344 ATGACCACAGGAGCATGG 1364

RESULT 14

AAA14340

standard; cDNA; 2423 BP.

XX

AAA14340;

XX AC

15-AUG-2000

(First entry)

XX cDNA encoding human transmembrane matrix metalloprotease MT4-MMP (2).

XX Matrix metalloprotease; MT4-MMP (2); transmembrane; human; antibody;

KW drug screening; diagnosis; arthrosis deformans; rheumatoid arthritis;

KW asthma; autoimmune disease; topical dermatitis; skin disorder;

KW ischaemic disorder; arterioclerosis; cancer; tissue damage;

KW inflammatory disorder; neurological disorder; ss.

XX Homo sapiens.

OS

XX Key

CDS

100..1917

Location/Qualifiers

/tag= a

/product= "Human transmembrane matrix metalloprotease MT4-

-MMP (2)"

XX PN WO200018805-A1.

XX PN 06-APR-2000.

XX PD 06-APR-2000.

XX PF 29-SEP-1999;

XX PR 29-SEP-1998;

XX PR 29-SEP-1998;

XX PA (KYOW) KYOWA HAKKO KOGYO KK.

XX PI Hanai N, Furuya A;

XX DR WPI; 2000-233115/25.

XX DR P-FSDB; AAY90503.

XX PT Antibody immunospecific for transmembrane matrix metalloprotease

PT polypeptide, useful in screening of inhibitors and activators as drugs

PT for, and for diagnosis of e.g. arthrosis deformans and asthma.

XX Example 2: Page 102-108; 152PP; Japanese.

XX PS

This sequence represents cDNA encoding a novel human transmembrane matrix

CC metalloprotease MT4-MMP (2). MT4-MMP (2) has physiologic activity

CC different to that of MT4-MMP. The invention relates to antibodies against

CC both murine and human transmembrane matrix

CC metalloprotease MT5-MMP (AAY90504 and AAY90505). The antibodies are

CC useful for the diagnosis and screening of inhibitors and activators

CC useful for treating or preventing a wide variety of medical conditions,

CC such as arthrosis deformans, rheumatoid arthritis, asthma, autoimmune

CC diseases and atopic dermatitis. The anti-MT5-MMP antibodies may

CC additionally be used to diagnose and screen therapeutic or prophylactic

CC agents for conditions affecting the brain, such as cerebral stroke and

CC Alzheimer's disease. The antibodies of the invention may also be used for

CC the prevention, diagnosis and treatment of psoriasis, contact dermatitis,

CC hair loss, ischaemic diseases, immune reaction accompanying organ

CC transplant, hepatitis, nephritis, pancreatitis, arteriosclerosis,

CC leukaemia, malignant tumours, wounds, corneal ulcers, tissue damage or

CC inflammation accompanying leukocytic infiltration, dementia, multiple

CC sclerosis, Parkinson's disease or brain tumour

XX SQ Sequence 2423 BP; 404 A; 871 C; 794 G; 354 T; 0 U; 0 Other;

XX Query Match 84.8%; Score 17.8; DB 3;

XX Best Local Similarity 90.5%; Pred. No. 93;

XX Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 1 ATGACCAACAGGCACATGG 21
 Db 1469 ATGACCAACAGGCACATGG 1489

RESULT 15
 ABZ20920
 ID ABZ20920 standard; CDNA; 2423 BP.
 XX
 AC ABZ20920;
 XX
 DT 26-MAR-2003 (first entry)
 XX MT4-MMP catalytic domain antibody related coding sequence.
 XX
 KW MT4-MMP; catalytic domain; antibody; inflammation; cancer; gene;
 KW membrane type-matrix metalloproteinase; antiinflammatory; antirheumatoid;
 KW antiarthritic; rheumatoid arthritis; cytosolic; human; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO2002101046-A1.
 XX
 PD 19-DEC-2002.
 XX
 PR 11-JUN-2002; 2002WO-JP005788.
 XX
 PR 11-JUN-2001; 2001JP-00176256.
 XX PA (KYOW) KYOWA HAKKO KOGYO KK.
 XX PI Miki I, Ohta S, Shitara K, Furuya A;
 XX
 DR ; 2003-148808/14.
 DR P-PSDB; AAQ19713.
 XX
 PT Monoclonal antibody specifically binding to natural or solubilized MT4-
 PT MMP, applicable in diagnosis and remedies for MT4-MMP participated
 PT diseases e.g. inflammations and cancer particularly rheumatoid arthritis.
 XX
 PS Example 1: Page 50-54; 63pp; Japanese.
 XX
 CC The present invention relates to a monoclonal antibody which binds
 CC specifically to the MT4-MMP (membrane type-matrix metalloproteinase)
 CC catalytic domain. The antibody is applicable in diagnosis and remedies
 CC for MT4-MMP participated diseases e.g. inflammations and cancer
 CC particularly rheumatoid arthritis. The present sequence is a human coding
 CC sequence shown in the exemplification of the invention
 XX
 SQ Sequence 2423 BP; 404 A; 871 C; 794 G; 354 T; 0 U; 0 Other;
 Query Match 84.8%; Score 17.8; DB 8; Length 2423;
 Best Local Similarity 90.5%; Pred. No. 93;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 ATGACCAACAGGCACATGG 21
 Db 1469 ATGACCAACAGGCACATGG 1489

Search completed: May 15, 2005, 11:25:18
 Job time : 17.1953 sec

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OM nucleic - nucleic search, using sw modal

Run on: May 15, 2005, 11:11:51 ; Search time 4.6102 Seconds
(without alignments), 7453.434 Million cell updates/sec

Title: US-10-764-075-2
Perfect score: 21
Sequence: 1 atgaccacaaaggcagatgg 21

Scoring table: IDENTITY_NUC
Gapop 10_0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues
Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*

1: /cn2_6_ptodata/1/in/5A_COMB.seq;*
2: /cn2_6_ptodata/1/in/5B_COMB.seq;*
3: /cn2_6_ptodata/1/in/6A_COMB.seq;*
4: /cn2_6_ptodata/1/in/6B_COMB.seq;*
5: /cn2_6_ptodata/1/in/1nAPCTUS_COMBO.seq;*
6: /cn2_6_ptodata/1/in/backFiles.seq;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	16.8	80.0	224	4 US-09-313-294A-7452	Sequence 7452, Ap
C 2	16.8	80.0	2354	3 US-09-810-671-1	Sequence 1, Appl1
C 3	16.8	80.0	2354	4 US-10-109-854-1	Sequence 1, Appl1
C 4	16.8	80.0	2354	4 US-10-339-856-1	Sequence 1, Appl1
C 5	16.8	80.0	2446	2 US-09-016-000-9	Sequence 9, Appl1
C 6	16.8	80.0	9769	3 US-08-961-527-30	Sequence 30, Appl1
C 7	16.8	80.0	21234	3 US-09-810-671-3	Sequence 3, Appl1
C 8	16.8	80.0	21234	4 US-10-109-854-3	Sequence 3, Appl1
C 9	16.8	80.0	21234	4 US-10-339-856-3	Sequence 3, Appl1
C 10	16.8	80.0	100836	4 US-09-949-016-12871	Sequence 12871, A
C 11	16.8	80.0	100837	4 US-09-949-016-17063	Sequence 17063, A
C 12	16.8	80.0	149543	4 US-09-15947	Sequence 15947, A
C 13	16.8	80.0	248968	4 US-09-949-016-12614	Sequence 12614, A
C 14	16.8	80.0	250958	4 US-09-949-016-16061	Sequence 16061, A
C 15	16.2	77.1	601	4 US-09-949-016-169588	Sequence 169588,
C 16	16.2	77.1	884	4 US-09-790-045-11	Sequence 11, Appl1
C 17	16.2	77.1	884	4 US-10-222-577-11	Sequence 11, Appl1
C 18	16.2	77.1	884	4 US-10-222-578-11	Sequence 11, Appl1
C 19	16.2	77.1	1200	4 US-09-598-401C-36	Sequence 36, Appl1
C 20	16.2	77.1	17000	4 US-09-679-299A-18	Sequence 18, Appl1
C 21	16.2	77.1	26103	4 US-09-949-016-168411	Sequence 168411, A
C 22	16.2	77.1	160759	4 US-09-949-016-16514	Sequence 16514, A
C 23	16.2	77.1	235064	4 US-09-949-016-15390	Sequence 15390, A
C 24	16.2	77.1	421491	4 US-09-949-016-12805	Sequence 12805, A
C 25	16.2	77.1	421494	4 US-09-949-016-14060	Sequence 14060, A
C 26	15.8	75.2	471	4 US-09-513-999C-992	Sequence 992, Appl
C 27	15.8	75.2	537	4 US-09-513-999C-993	Sequence 993, App

ALIGNMENTS

RESULT 1
US-09-113-294A-7452/C
; Sequence 7452, Application US/09313294A
; Patent No. 6476212
; GENERAL INFORMATION:
; APPLICANT: Laligudi, Raghunath V.
; APPLICANT: Ito, Laura Y.
; APPLICANT: Sherman, Bradley K.
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES DERIVED FROM CORN EAR
; FILE REFERENCE: PL-0017 US
; CURRENT APPLICATION NUMBER: US/09/313, 294A
; CURRENT FILING DATE: 1999-05-14
; NUMBER OF SEQ ID NOS: 7600
; SOFTWARE: PERL, Program
; SEQ ID NO 7452
; LENGTH: 224
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; NAME/KEY: misc feature
; OTHER INFORMATION: Incyte ID No. 6476212 700381752H1
US-09-113-294A-7452

Query Match 80.0%; Score 16.8; DB 4; Length 224;
Best Local Similarity 90.0%; Pred. No. 74;
Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGAACACACAAGGCAAGCTGATGG 21
Db 39 TGTACACACAAGGCTGATGG 20

RESULT 2
US-09-810-671-1
; Sequence 1, Application US/09810671
; Patent No. 6455291
; GENERAL INFORMATION:
; APPLICANT: YAN, Chunhua et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES THEREOF
; FILE REFERENCE: CL000758
; CURRENT APPLICATION NUMBER: US/09/810, 671
; CURRENT FILING DATE: 2001-06-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2354
; TYPE: DNA
; ORGANISM: Human

US-09-810-671-1
 Query Match 80.0%; Score 16.8; DB 3; Length 2354;
 Best Local Similarity 90.0%; Pred. No. 1e+02;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 2 TGACCAACAGGAGATGG 21
 Db 704 TGACCACTCAGGAGATGG 723

RESULT 3
 US-10-109-854-1
 / Sequence 1, Application US/10109854
 / Patent No. 6650337
 / GENERAL INFORMATION:
 / APPLICANT: YAN, Chunhua et al.
 / TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEAR PROTEINS, ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 / TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 / FILE REFERENCE: CL000758DIV1
 / CURRENT APPLICATION NUMBER: US/10/109, 854
 / CURRENT FILING DATE: 2002-04-01
 / PRIOR APPLICATION NUMBER: 60/227, 470
 / PRIOR FILING DATE: 2000-08-24
 / PRIOR APPLICATION NUMBER: 09/810, 671
 / PRIOR FILING DATE: 2001-03-19
 / NUMBER OF SEQ ID NOS: 5
 / SOFTWARE: FastSEQ for Windows Version 4.0
 / SEQ ID NO 1
 / LENGTH: 2354
 / TYPE: DNA
 / ORGANISM: Homo sapien
 US-10-109-854-1
 Query Match 80.0%; Score 16.8; DB 4; Length 2354;
 Best Local Similarity 90.0%; Pred. No. 1e+02;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 2 TGACCAACAGGAGATGG 21
 Db 704 TGACCACTCAGGAGATGG 723

RESULT 4
 US-10-339-656-1
 / Sequence 1, Application US/10339656
 / Patent No. 6733978
 / GENERAL INFORMATION:
 / APPLICANT: YAN, Chunhua et al.
 / TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEAR PROTEINS, ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 / FILE REFERENCE: CL000758DIV2
 / CURRENT APPLICATION NUMBER: US/10/339, 656
 / CURRENT FILING DATE: 2003-01-10
 / PRIOR APPLICATION NUMBER: 10/109, 854
 / PRIOR FILING DATE: 2002-04-01
 / PRIOR APPLICATION NUMBER: 09/810, 671
 / PRIOR FILING DATE: 2001-03-19
 / PRIOR APPLICATION NUMBER: 60/227, 470
 / PRIOR FILING DATE: 2000-08-24
 / NUMBER OF SEQ ID NOS: 5
 / SOFTWARE: FastSEQ for Windows Version 4.0
 / SEQ ID NO 1
 / LENGTH: 2354
 / TYPE: DNA
 / ORGANISM: Homo sapien
 US-10-339-656-1
 Query Match 80.0%; Score 16.8; DB 4; Length 2354;
 Best Local Similarity 90.0%; Pred. No. 1e+02;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGACCAACAGGAGATGG 21
 Db 817 TGACCACTCAGGAGATGG 836

RESULT 5
 US-09-016-000-9
 / Sequence 9, Application US/09016000
 / Patent No. 5962232
 / GENERAL INFORMATION:
 / APPLICANT: Hillman, Jennifer L.
 / APPLICANT: Lal, Preeti
 / APPLICANT: Bandman, Olga
 / APPLICANT: Akerblom, Ingrid E.
 / APPLICANT: Shah, Purvi
 / APPLICANT: Corley, Neil C.
 / APPLICANT: Giegler, Karl G.
 / TITLE OF INVENTION: PROTEIN KINASE MOLECULES
 / NUMBER OF SEQUENCES: 12
 / CORRESPONDENCE ADDRESS:
 / ADDRESSEE: Incyte Pharmaceuticals, Inc.
 / STREET: 3174 Porter Drive
 / CITY: Palo Alto
 / STATE: CA
 / COUNTRY: USA
 / ZIP: 94304
 / COMPUTER READABLE FORM:
 / MEDIUM TYPE: Diskette
 / COMPUTER: IBM Compatible
 / OPERATING SYSTEM: DOS
 / SOFTWARE: FastSEQ for Windows Version 2.0
 / CURRENT APPLICATION DATA:
 / APPLICATION NUMBER: US/09/016, 000
 / FILING DATE: HEREWITHE
 / CLASSIFICATION:
 / COMPUTER: IBM Compatible
 / OPERATING SYSTEM: DOS
 / SOFTWARE: FastSEQ for Windows Version 2.0
 / PRIORITY APPLICATION DATA:
 / APPLICATION NUMBER: US/09/016, 000
 / ATTORNEY/AGENT INFORMATION:
 / NAME: Billings, Lucy J.
 / REGISTRATION NUMBER: 36,749
 / REFERENCE/DOCKET NUMBER: PF-0465 US
 / TELECOMMUNICATION INFORMATION:
 / TELEPHONE: 650-655-0555
 / TELEFAX: 650-845-4166
 / TELEX:
 / INFORMATION FOR SEQ ID NO: 9:
 / SEQUENCE CHARACTERISTICS:
 / LENGTH: 2446 base pairs
 / TYPE: nucleic acid
 / SPANDEADNESS: single
 / TOPOLOGY: linear
 / IMMEDIATE SOURCE:
 / LIBRARY: NEUTEMTO1
 / CLONE: 339963
 US-09-016-000-9
 Query Match 80.0%; Score 16.8; DB 2; Length 2446;
 Best Local Similarity 90.0%; Pred. No. 1e+02;
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGACCAACAGGAGATGG 21
 Db 817 TGACCACTCAGGAGATGG 836

RESULT 6
 US-08-961-527-30/c
 / Sequence 30, Application US/08961527
 / Patent No. 6420135
 / GENERAL INFORMATION:
 / APPLICANT: Charles Kunisch

TITLE OF INVENTION: Streptococcus pneumoniae Polynucleotides and Sequences
 NUMBER OF SEQUENCES: 391
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Human Genome Sciences, Inc.
 STREET: 9410 Key West Avenue
 CITY: Rockville
 STATE: Maryland
 COUNTRY: USA
 ZIP: 20850

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.50 inch, 1.4Mb storage
 COMPUTER: HP Vectra 486/33
 OPERATING SYSTEM: MSDOS version 6.2
 SOFTWARE: ASCII Text
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/961,527
 FILING DATE:
 CLASSIFICATION: 424
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Brookes, A. Anders
 REGISTRATION NUMBER: 36,373
 REFERENCE/DOCKET NUMBER: PB340P1
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (301) 309-8504
 TELEX/FAX: (301) 309-8512
 INFORMATION FOR SEQ ID NO: 30:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 9769 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: Linear
 SEQ ID NO: 30

Query Match 80.0%; Score 16.8; DB 3; Length 9769;
 Best Local Similarity 90.0%; Pred. No. 1.3e+02; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGACCACAAAGGCAAGATGG 21
 Db 3808 TGACCACAAAGGCAAGATGG 3789

RESULT 7
 US-09-810-671-3

Sequence 3, Application US/0910671
 Patent No. 6455291
 GENERAL INFORMATION:
 APPLICANT: YAN, Chunhua et al.

TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC IC
 TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 FILE REFERENCE: CLO00758
 CURRENT APPLICATION NUMBER: US/09/810,671
 CURRENT FILING DATE: 2001-06-08
 NUMBER OF SEQ ID NOS: 5
 SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 3
 LENGTH: 21234

TYPE: DNA

ORGANISM: Human

US-09-810-671-3

Query Match 80.0%; Score 16.8; DB 3; Length 21234;
 Best Local Similarity 90.0%; Pred. No. 1.4e+02; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGACCACAAAGGCAAGATGG 21
 Db 8379 TGACCACATCAGGCAAGATGG 8398

RESULT 8
 US-10-109-854-3

Sequence 3, Application US/10109854
 Patent No. 6630337
 GENERAL INFORMATION:
 APPLICANT: YAN, Chunhua et al.

TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC IC
 TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 FILE REFERENCE: THEREOF
 CURRENT APPLICATION NUMBER: CLO00758
 CURRENT FILING DATE: 2002-04-01
 PRIORITY NUMBER: 60/227,470
 PRIORITY FILING DATE: 2000-08-24
 PRIORITY APPLICATION NUMBER: 09/810,671
 PRIORITY FILING DATE: 2001-03-19
 NUMBER OF SEQ ID NOS: 5
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 3
 LENGTH: 21234

TYPE: DNA

ORGANISM: Homo sapien

US-10-109-854-3

Query Match 80.0%; Score 16.8; DB 4; Length 21234;
 Best Local Similarity 90.0%; Pred. No. 1.4e+02; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGACCACAAAGGCAAGATGG 21
 Db 8379 TGACCACATCAGGCAAGATGG 8398

RESULT 9
 US-10-139-656-3

Sequence 3, Application US/10339656
 Patent No. 6733978
 GENERAL INFORMATION:
 APPLICANT: YAN, Chunhua et al.

TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC IC
 TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
 FILE REFERENCE: THEREOF
 CURRENT APPLICATION NUMBER: CLO00758
 CURRENT FILING DATE: 2003-01-10
 PRIORITY NUMBER: 60/109,854
 PRIORITY FILING DATE: 2002-04-01
 PRIORITY APPLICATION NUMBER: 09/810,671
 PRIORITY FILING DATE: 2001-03-19
 PRIORITY APPLICATION NUMBER: 60/227,470
 PRIORITY FILING DATE: 2000-08-24
 NUMBER OF SEQ ID NOS: 5
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 3
 LENGTH: 21234

TYPE: DNA

ORGANISM: Homo sapien

US-10-139-656-3

Query Match 80.0%; Score 16.8; DB 4; Length 21234;
 Best Local Similarity 90.0%; Pred. No. 1.4e+02; Mismatches 2; Indels 0; Gaps 0;

Qy 2 TGACCACAAAGGCAAGATGG 21
 Db 8379 TGACCACATCAGGCAAGATGG 8398

RESULT 10
 US-09-949-016-12871/C

Sequence 12871, Application US/09349016
 Patent No. 6812339

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-18
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 12871
 LENGTH: 100836
 TYPE: DNA
 ORGANISM: Human
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-12871

Query Match Score 80.0%; DB 4; Length 100836;
 Best Local Similarity 90.0%; Pred. No. 1.7e+02; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 2;

Qy	2 TGACCACAAAGGCAGATGG 21
Db	68341 TGACCACAAAGGTGATGG 68322

RESULT 11
 US-09-949-016-17063/c
 Sequence 17063, Application US/09949016
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-18
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 17063
 LENGTH: 100837
 TYPE: DNA
 ORGANISM: Human
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-17063

Query Match Score 80.0%; DB 4; Length 100837;
 Best Local Similarity 90.0%; Pred. No. 1.7e+02; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 2;

Qy	2 TGACCACAAAGGCAGATGG 21
Db	68341 TGACCACAAAGGTGATGG 68322

RESULT 12
 US-09-949-016-16061/c

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-18
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 15947
 LENGTH: 149543
 TYPE: DNA
 ORGANISM: Human
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-15947

Query Match Score 80.0%; DB 4; Length 149543;
 Best Local Similarity 90.0%; Pred. No. 1.8e+02; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 2;

Qy	2 TGACCAACAGGCAGATGG 21
Db	52555 TGACCAACAGGTGATGG 525316

RESULT 13
 US-09-949-016-12614/c
 Sequence 12614, Application US/09949016
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-18
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 12614
 LENGTH: 248968
 TYPE: DNA
 ORGANISM: Human
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-12614

Query Match Score 80.0%; DB 4; Length 248968;
 Best Local Similarity 90.0%; Pred. No. 1.9e+02; Indels 0; Gaps 0;
 Matches 18; Conservative 0; Mismatches 2;

Qy	1 ATGACCAACAGGCAGATGG 20
Db	67410 ATGAAACACAGGTGATGG 67391

RESULT 14
 US-09-949-016-16061/c

Sequence 16061, Application US/09949016
 i Patent No. 6812339
 i GENERAL INFORMATION:
 i APPLICANT: VENTER, J. Craig et al.
 i TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 i FILE REFERENCE: CLO001307
 i CURRENT APPLICATION NUMBER: US/09/949,016
 i CURRENT FILING DATE: 2000-04-14
 i PRIOR APPLICATION NUMBER: 60/241,755
 i PRIOR FILING DATE: 2000-10-20
 i PRIOR APPLICATION NUMBER: 60/237,768
 i PRIOR FILING DATE: 2000-10-03
 i PRIOR APPLICATION NUMBER: 60/231,498
 i PRIOR FILING DATE: 2000-09-08
 i NUMBER OF SEQ ID NOS: 207012
 i SOFTWARE: FastSEQ for Windows Version 4.0
 i SEQ ID NO: 16061
 i LENGTH: 250958
 i TYPE: DNA
 i ORGANISM: Human
 i FEATURE:
 i NAME/KEY: misc_feature
 i LOCATION: (1)...(250958)
 i OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-16061

RESULT 15
 US-09-949-016-169568/C
 ; Sequence 169568, Application US/09949016
 i Patent No. 6812339
 i GENERAL INFORMATION:
 i APPLICANT: VENTER, J. Craig et al.
 i TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 i FILE REFERENCE: CLO001307
 i CURRENT APPLICATION NUMBER: US/09/949,016
 i CURRENT FILING DATE: 2000-04-14
 i PRIOR APPLICATION NUMBER: 60/241,755
 i PRIOR FILING DATE: 2000-10-20
 i PRIOR APPLICATION NUMBER: 60/237,768
 i PRIOR FILING DATE: 2000-10-03
 i PRIOR APPLICATION NUMBER: 60/231,498
 i PRIOR FILING DATE: 2000-09-08
 i NUMBER OF SEQ ID NOS: 207012
 i SOFTWARE: FastSEQ for Windows Version 4.0
 i SEQ ID NO: 169568
 i LENGTH: 601
 i TYPE: DNA
 i ORGANISM: Human
 US-09-949-016-169568

Query Match 80.0%; Score 16.8; DB 4; Length 250958;
 Best Local Similarity 90.0%; Pred. No. 1.9e+02
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 ATGACCAACAAGGCAGATG 20
 Db 117400 ATGAAACACAAGGCAGATG 117381

Query Match 80.0%; Score 16.8; DB 4; Length 250958;
 Best Local Similarity 90.0%; Pred. No. 1.9e+02
 Matches 18; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 Qy 1 ATGACCAACAAGGCAGATG 21
 Db 455 ATGAAACACAAGGCAGATGG 435

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OM nucleic - nucleic search, using sw model

Run on: May 15, 2005, 12:53:36 ; Search time 15.5004 Seconds
(without alignments)

8291.679 Million cell updates/sec

Title: US-10-764-075-2

Perfect score: 21

Sequence: 1 atgaccacaaggcgatgg 21

Scoring table: IDBNTRY_NUC Gapop 10_0 , Gapext 1.0

Searched: 5662332 seqs, 3060109652 residues

Total number of hits satisfying chosen parameters: 11324664

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications NA:*

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10: /cgm2_6/_ptodata/2/pubna/US09B_PUBCOMB.seq;*
11: /cgm2_6/_ptodata/2/pubna/US09C_PUBCOMB.seq;*
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13: /cgm2_6/_ptodata/2/pubna/US10A_PUBCOMB.seq;*
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22: /cgm2_6/_ptodata/2/pubna/US60_PUBCOMB.seq;*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	21	100.0	1136	18	US-10-764-075-2
3	21	100.0	1620	19	US-10-599-936-16
4	21	100.0	2304	19	US-10-639-936-7
5	21	100.0	2304	19	US-10-639-936-11
6	21	100.0	24774	19	US-10-889-447-3
7	21	100.0	28920	19	US-10-889-447-5
8	21	100.0	28920	19	US-10-889-447-6
9	21	100.0	29291	19	US-10-889-447-4
10	21	100.0	29430	19	US-10-889-447-7
11	21	100.0	29727	18	US-10-839-729-15

SEQUENCES

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Sequence 2, Appli	21	100.0	29727	19	US-10-839-729-1
Sequence 3, Appli	21	100.0	29736	19	US-10-639-936-3
Sequence 4, Appli	21	100.0	29742	18	US-10-839-729-16
Sequence 5, Appli	21	100.0	29742	19	US-10-808-187-15
Sequence 6, Appli	21	100.0	29742	19	US-10-808-187-16
Sequence 7, Appli	21	100.0	29742	19	US-10-808-187-17
Sequence 8, Appli	21	100.0	29742	19	US-10-808-187-18
Sequence 9, Appli	21	100.0	29751	19	US-10-808-187-108
Sequence 10, Appli	21	100.0	29751	19	US-10-808-187-1108
Sequence 11, Appli	21	100.0	29751	19	US-10-808-187-1590
Sequence 12, Appli	21	100.0	29751	19	US-10-808-187-1965
Sequence 13, Appli	21	100.0	29751	18	US-10-839-729-14
Sequence 14, Appli	21	100.0	29751	19	US-10-856-529-1
Sequence 15, Appli	21	100.0	29751	19	US-10-826-879-67
Sequence 16, Appli	21	100.0	29751	19	US-10-889-447-1
Sequence 17, Appli	21	100.0	29751	19	US-10-889-447-2
Sequence 18, Appli	21	100.0	29751	19	US-10-639-936-2
Sequence 19, Appli	21	100.0	29751	13	US-10-027-632-305207
Sequence 20, Appli	21	100.0	29751	17	US-10-027-632-305207
Sequence 21, Appli	21	100.0	29751	19	US-10-384-339C-106
Sequence 22, Appli	21	100.0	29751	18	US-10-384-339C-75
Sequence 23, Appli	21	100.0	29751	17	US-10-406-209-17
Sequence 24, Appli	21	100.0	29751	16	US-10-406-209-17
Sequence 25, Appli	21	100.0	29751	16	US-10-131-985-50
Sequence 26, Appli	21	100.0	29751	13	US-10-283-975A-51
Sequence 27, Appli	21	100.0	29751	17	US-10-901-417-50
Sequence 28, Appli	21	100.0	29751	19	US-10-125-114-26875
Sequence 29, Appli	21	100.0	29751	18	US-10-480-209-4
Sequence 30, Appli	21	100.0	29751	16	US-10-480-209-17
Sequence 31, Appli	21	100.0	29751	17	US-10-131-985-50
Sequence 32, Appli	21	100.0	29751	19	US-10-889-447-2
Sequence 33, Appli	21	100.0	29751	13	US-10-027-632-305207
Sequence 34, Appli	21	100.0	29751	17	US-10-027-632-305207
Sequence 35, Appli	21	100.0	29751	19	US-10-889-447-1
Sequence 36, Appli	21	100.0	29751	18	US-10-889-447-2
Sequence 37, Appli	21	100.0	29751	17	US-10-889-447-3
Sequence 38, Appli	21	100.0	29751	16	US-10-889-447-4
Sequence 39, Appli	21	100.0	29751	15	US-10-889-447-5
Sequence 40, Appli	21	100.0	29751	14	US-10-889-447-6
Sequence 41, Appli	21	100.0	29751	13	US-10-889-447-7
Sequence 42, Appli	21	100.0	29751	12	US-10-889-447-8
Sequence 43, Appli	21	100.0	29751	11	US-10-889-447-9
Sequence 44, Appli	21	100.0	29751	10	US-10-889-447-10
Sequence 45, Appli	21	100.0	29751	9	US-10-889-447-11

ALIGNMENTS

RESULT 1
US-10-764-075-2
; Sequence 2, Application US/10764075
; Publication No. US20040265796A1
; GENERAL INFORMATION:
; APPLICANT: Briese, Thomas
; ATTORNEY: Lipkin, Ian W.
; APPLICANT: Palacios, Gustavo
; ATTORNEY: Jabado, Omar
; TITLE OF INVENTION: Methods and Kits for Detecting SARS-Associated Coronavirus
; FILE REFERENCE: 5199-87
; CURRENT APPLICATION NUMBER: US/10/764,075
; CURRENT FILING DATE: 2004-01-23
; PRIORITY APPLICATION NUMBER: Provisional Application 60/463,704
; PRIORITY FILING DATE: 2003-04-17
; NUMBER OF SEQ ID NOS: 16
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO: 2
; LENGTH: 21
; TYPE: DNA
; ORGANISM: artificial sequence
; FEATURE: OTHER INFORMATION: primer
US-10-764-075-2

Qy 1 ATGACCAACACAGGAGATGG 21
Db 1 ATGACCAACACAGGAGATGG 21

RESULT 2
US-10-764-075-1
Sequence 1, Application US/10764075
Publication No. US20040265796A1
GENERAL INFORMATION:
APPLICANT: Briese, Thomas
TITLE OF INVENTION: Methods and Kits for Detecting SARS-Associated Coronavirus
FILE REFERENCE: 5199-97
CURRENT FILING DATE: 2004-01-23
PRIORITY FILING DATE: 2003-04-17
NUMBER OF SEQ ID NOS: 16
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 1
LENGTH: 1:136
TYPE: DNA
ORGANISM: artificial sequence
FEATURE:
OTHER INFORMATION: synthetic nucleic acid sequence that includes the 3' non-coding
OTHER INFORMATION: region of the SARS-associated coronavirus genome and a portion of
OTHER INFORMATION: the N gene of the SARS-associated coronavirus genome
US-10-764-075-1

Query Match 100.0%; Score 21; DB 18; Length 136;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGACCACACAGGGAGATGG 21
Db 893 ATGACCACACAGGGAGATGG 913

RESULT 3
US-10-699-936-16
Sequence 16, Application US/10699936
Publication No. US20050095582A1
GENERAL INFORMATION:
APPLICANT: Gillim-Ross, Laura
APPLICANT: Taylor, Jill
APPLICANT: Schoell, David R.
APPLICANT: Wentworth, David E.
APPLICANT: Jollieck, Joseph D.
TITLE OF INVENTION: Compositions and Methods for Detecting Severe Acute Respiratory
FILE REFERENCE: DHI-07986
CURRENT FILING DATE: 2003-11-03
NUMBER OF SEQ ID NOS: 87
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 16
LENGTH: 1620
TYPE: DNA
ORGANISM: SARS-CoV ZJ-HZ01
US-10-699-936-16

Query Match 100.0%; Score 21; DB 19; Length 1620;
Best Local Similarity 100.0%; Pred. No. 1.4;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1 ATGACCACACAGGGAGATGG 21
Db 1353 ATGACCACACAGGGAGATGG 1373

RESULT 4
US-10-699-936-7
Sequence 7, Application US/10699936
Publication No. US20050095582A1
GENERAL INFORMATION:
APPLICANT: Gillim-Ross, Laura
APPLICANT: Taylor, Jill
APPLICANT: Schoell, David R.
APPLICANT: Wentworth, David E.
APPLICANT: Jollieck, Joseph D.
TITLE OF INVENTION: Compositions and Methods for Detecting Severe Acute Respiratory
FILE REFERENCE: DHI-07986
CURRENT FILING DATE: 2003-11-03
NUMBER OF SEQ ID NOS: 87
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 7
LENGTH: 2304
TYPE: DNA
ORGANISM: SARS-CoV Shanghai LY
US-10-699-936-7

RESULT 5
US-10-699-936-11
Sequence 11, Application US/10699936
Publication No. US20050095582A1
GENERAL INFORMATION:
APPLICANT: Gillim-Ross, Laura
APPLICANT: Taylor, Jill
APPLICANT: Schoell, David R.
APPLICANT: Wentworth, David E.
APPLICANT: Jollieck, Joseph D.
TITLE OF INVENTION: Compositions and Methods for Detecting Severe Acute Respiratory
FILE REFERENCE: DHI-07986
CURRENT FILING DATE: 2003-11-03
NUMBER OF SEQ ID NOS: 87
SOFTWARE: PatentIn version 3.2
SEQ ID NO: 11
LENGTH: 2304
TYPE: DNA
ORGANISM: SARS coronavirus Shanhgai LY
US-10-699-936-11

RESULT 6
US-10-889-447-3
Sequence 3, Application US/10889447
Publication No. US20050075307A1
GENERAL INFORMATION:
APPLICANT: Bennett, C. Frank
APPLICANT: Jain, Ravi
TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION
FILE REFERENCE: RTS-0685US
CURRENT APPLICATION NUMBER: US/10/889,447
CURRENT FILING DATE: 2004-07-12
PRIOR APPLICATION NUMBER: 60/486,670
PRIOR FILING DATE: 2003-07-12
NUMBER OF SEQ ID NOS: 241

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; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 24774
; TYPE: DNA
; ORGANISM: SARS coronavirus isolate BJ01
; FEATURE: misc_feature
; LOCATION:
; OTHER INFORMATION: n is any nucleotide
US-10-889-447-3

Query Match 100.0%; Score 21; DB 19; Length 24774;
Best Local Similarity 100.0%; Pred. No. 1..6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGACCACACAAGGCAGATGG 21
Db 28660 ATGACCACACAAGGCAGATGG 28680

RESULT 9
US-10-889-447-4
; Sequence 4, Application US/10889447
; Publication No. US20050075307A1
; GENERAL INFORMATION:
; APPLICANT: Bennett, C. Frank
; ATTORNEY: Jain, Ravi
; TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION
; FILE REFERENCE: RTS-0685US
; CURRENT APPLICATION NUMBER: US/10/889,447
; CURRENT FILING DATE: 2004-07-12
; NUMBER OF SEQ ID NOS: 241
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 29291
; TYPE: DNA
; ORGANISM: SARS coronavirus isolate BJ02
; FEATURE: misc_feature
; LOCATION:
; OTHER INFORMATION: n is any nucleotide
US-10-889-447-4

Query Match 100.0%; Score 21; DB 19; Length 29291;
Best Local Similarity 100.0%; Pred. No. 1..6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGACCACACAAGGCAGATGG 21
Db 29029 ATGACCACACAAGGCAGATGG 29049

RESULT 10
US-10-889-447-7
; Sequence 7, Application US/10889447
; Publication No. US20050075307A1
; GENERAL INFORMATION:
; APPLICANT: Bennett, C. Frank
; ATTORNEY: Jain, Ravi
; TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION
; FILE REFERENCE: RTS-0685US
; CURRENT APPLICATION NUMBER: US/10/889,447
; CURRENT FILING DATE: 2004-07-12
; NUMBER OF SEQ ID NOS: 241
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 7
; LENGTH: 29430
; TYPE: DNA
; ORGANISM: SARS coronavirus isolate GZ01
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: n is any nucleotide
US-10-889-447-7

Query Match 100.0%; Score 21; DB 19; Length 28920;
Best Local Similarity 100.0%; Pred. No. 1..6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 ATGACCACACAAGGCAGATGG 21
Db 28660 ATGACCACACAAGGCAGATGG 28680

RESULT 8
US-10-889-447-6
; Sequence 6, Application US/10889447
; Publication No. US20050075307A1
; GENERAL INFORMATION:
; APPLICANT: Bennett, C. Frank
; ATTORNEY: Jain, Ravi
; TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION
; FILE REFERENCE: RTS-0685US
; CURRENT APPLICATION NUMBER: US/10/889,447
; CURRENT FILING DATE: 2004-07-12
; NUMBER OF SEQ ID NOS: 241
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 28920
; TYPE: DNA
; ORGANISM: SARS coronavirus isolate BJ04
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION:
; OTHER INFORMATION: n is any nucleotide
US-10-889-447-7

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 Best Local Similarity 100.0%; Pred. No. 1.6; Mismatches 0; Indels 0; Gaps 0;
 Matches 21; Conservative 0; General Information:
 Qy 1 ATGACCACACAGGCCAGTGG 21
 Db 29163 ATGACCACACAGGCCAGTGG 29183

RESULT 11
 US-10-839-729-15
 ; Sequence 15, Application US/10839729
 ; Publication No. US20050002933A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jens Herold
 ; TITLE OF INVENTION: SARS-CORONAVIRUS VIRUS-LIKE PARTICLES
 ; TITLE OF INVENTION: AND METHODS OF USE
 ; FILE REFERENCE: BIOBANK.013A
 ; CURRENT APPLICATION NUMBER: US/10/839,729
 ; CURRENT FILING DATE: 2004-05-04
 ; PRIOR APPLICATION NUMBER: 60/468703
 ; PRIOR FILING DATE: 2003-05-06
 ; NUMBER OF SEQ ID NOS: 49
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 15
 ; LENGTH: 29727
 ; TYPE: DNA
 ; ORGANISM: SARS Coronavirus
 ; US-10-839-729-15

Query Match 100.0%; Score 21; DB 18; Length 29727;
 Best Local Similarity 100.0%; Pred. No. 1.6; Mismatches 0; Indels 0; Gaps 0;
 Matches 21; Conservative 0; General Information:
 Qy 1 ATGACCACACAGGCCAGTGG 21
 Db 29398 ATGACCACACAGGCCAGTGG 29418

RESULT 14
 US-10-699-936-1
 ; Sequence 1, Application US/10699936
 ; Publication No. US20050095582A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Gillim-Ross, Laura
 ; APPLICANT: Taylor, Jill
 ; APPLICANT: School, David R.
 ; APPLICANT: Wentworth, David E.
 ; APPLICANT: Jollick, Joseph D.
 ; TITLE OF INVENTION: Compositions and Methods for Detecting Severe Acute Respiratory Syndrome Coronavirus
 ; FILE REFERENCE: DHI-07986
 ; CURRENT APPLICATION NUMBER: US/10/699,936
 ; CURRENT FILING DATE: 2003-11-03
 ; NUMBER OF SEQ ID NOS: 87
 ; SOFTWARE: PatentIn version 3.2
 ; SEQ ID NO 1
 ; LENGTH: 29727
 ; TYPE: DNA
 ; ORGANISM: SARS coronavirus
 ; US-10-699-936-1

Query Match 100.0%; Score 21; DB 19; Length 29727;
 Best Local Similarity 100.0%; Pred. No. 1.6; Mismatches 0; Indels 0; Gaps 0;
 Matches 21; Conservative 0; General Information:
 Qy 1 ATGACCACACAGGCCAGTGG 21
 Db 29398 ATGACCACACAGGCCAGTGG 29418

RESULT 15
 US-10-839-729-17
 ; Sequence 17, Application US/10839729
 ; Publication No. US20050002933A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Jens Herold
 ; TITLE OF INVENTION: SARS-CORONAVIRUS VIRUS-LIKE PARTICLES
 ; FILE REFERENCE: BIOBANK.013A
 ; CURRENT APPLICATION NUMBER: US/10/839,729
 ; CURRENT FILING DATE: 2004-05-04
 ; PRIOR APPLICATION NUMBER: 60/468703
 ; PRIOR FILING DATE: 2003-05-06

RESULT 13
 US-10-889-447-8

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; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 17
; LENGTH: 29736
; TYPE: DNA
; ORGANISM: SARS Coronavirus
; US-10-833-729-17

Query Match          100 0%; Score 21; DB 18; Length 29736;
Best Local Similarity 100 0%; Pred. No. 1.6;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy                  1 ATGACCACACAGGGAGATGG 21
|:|||||:|||||:|||||:|||||:|||||:|
Db      29383 ATGACCACACAGGGAGATGG 29403

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Page 2

Best Local Similarity 100.0%	Pred. No. 9.5e+02;	Indels 0;	Gaps 0;	TITLE Wilson, R. The WashU-Merck EST Project Unpublished (1995)
Matches 18; Conservative 0; Mismatches 0;				COMMENT Contact: Wilson RK Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108 Tel: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu
QY 1 ATGACCAACAAGCCAGA 18				
DB 323 ATGACCAACAAGCCAGA 340				
RESULT 5				
CN924279 LOCUS CN924279 295 bp mRNA linear EST 07-JUN-2004				
DEFINITION 0041-AELA009380HT (AELA) Royal Gala young expanding leaf Malus x domestica cDNA clone AELA009380, mRNA sequence.				
ACCESSION CN924279				
VERSION CN924279.1				
KEYWORDS EST				
SOURCE Malus x domestica (cultivated apple)				
ORGANISM Malus x domestica				
Eukaryota; Viridiplantae; Streptophytina; Embryophytina; Tracheophytina; Spermatophytina; Magnoliophytina; eudivariously; eudivariously; eudivariously; eudivariously; Rosales; Rosaceae; Maloideae; Malus.				
REFERENCE 1 (bases 1 to 295)				
AUTHORS Beuning,L., Bowen,J., Crowhurst,R., Gleave,A., Janssen,B., Newcomb,R., Ross,G., Snowden,K., Walton,E. and Yauk,Y.				
TITLE HortResearch Apple EST Project				
JOURNAL Unpublished (2004)				
COMMENT Contact: Gleave,A.				
Sequencing Facility The Horticulture and Food Research Institute of New Zealand Ltd 120 Mt Albert Rd, Mt Albert, Auckland, New Zealand				
Phone: 00 64 09 815 4200				
Fax: 00 64 09 815 4201				
Email: est@hortresearch.co.nz.				
FEATURES SOURCE 1 295				
/organism="Malus x domestica" (mol_type="mRNA" (db_xref="EBA009380") (clone="EBA009380") (tissue_type="Leaf") (dev_stage="Young, expanding" (clone_lib=" (AELA) Royal Gala young expanding leaf" (note="Vector: PBK-CMV; Library sequenced by Genesis Research & Development"				
ORIGIN				
Query Match 84.8%; Score 17.8; DB 7; Length 329;				
Best Local Similarity 90.5%; Pred. No. 1e+03; Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0; Gaps 0;				
RESULT 7 AL119881				
LOCUS DKEFBP761M2224_r1				
DEFINITION 356 bp mRNA (synonym: hany2) Homo sapiens cDNA clone				
Db 49 ATGACCAACAAGCCAGATGG 21				
ACCESSION AL119881				
VERSION AL119881.1				
KEYWORDS EST				
TITLE ATGACCAACAAGCCAGATGG 21				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION This is the 5' sequence of the clone insert.				
IMAGE:23715 5' similar to SP:CG2_MOUSE P33434 72 KD TYPE IV COLLAGENASE PRECURSOR ; mRNA sequence.				
ACCESSION T77190				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION T77190				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
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ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
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ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
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ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
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VERSION T77190.1				
KEYWORDS EST				
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ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
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ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
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VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
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VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
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VERSION T77190.1				
KEYWORDS EST				
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Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
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VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				
SOURCE Homo sapiens (human)				
ORGANISM Homo sapiens				
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.				
DEFINITION 1 (bases 1 to 329)				
ACCESSION Hillier,L., Clark,N., Dubque,T., Ellison,T., Kucaba,K., Hawkins,M., Holman,M., Hultman,M., Kuchta,R., Le M., Lennon,G., Marra,M., Parsons,J., Raskin,L., Rohlfing,T., Soares,M., Tan,F., Trevaskis,E., Waterston,R., Williamson,A., Wohldmann,P. and				
VERSION T77190.1				
KEYWORDS EST				

No *s1* sequence available.
 This clone (DKFZp61M224) is available at the RZPD in Berlin.
 Please contact the RZPD, Ressourcenzentrum, Heubnerweg 6, 14059 Berlin-Charlottenburg, GERMANY; Email: clone@rzpd.de.

FEATURES

Source	Location/Qualifiers	Value
1..356	/organism="Homo sapiens"	
/mol_type="mRNA"		
/db_xref="taxon:9606"		
/clone="DKFZp61M224"		
/issue_type="amygdala"		
/dev_stage="adult"		
/lab_host="DH10B"		
/clone_idb="761 (Synonym: hamy2)"		
/note="Vector: pSport1; Site_1: NotI; Site_2: SalI"		

ORIGIN

Query Match	Score	DB	Length
Best Local Similarity	84.8%	1	356
Matches	19;	Le+03;	
Conservative	0;	Mismatches	2;
		Indels	0;
		Gaps	0;

Qy	1 ATGACCACACAGGCCATGG 21
Db	210 ATGACCACACAGGCCATGG 230

RESULT 8

Query Match	Score	DB	Length
Best Local Similarity	90.5%	1	356
Matches	19;	Le+03;	
Conservative	0;	Mismatches	2;
		Indels	0;
		Gaps	0;

Qy	1 ATGACCACACAGGCCATGG 21
Db	210 ATGACCACACAGGCCATGG 230

RESULT 9

Query Match	Score	DB	Length
Best Local Similarity	90.5%	1	456
Matches	19;	Le+03;	
Conservative	0;	Mismatches	2;
		Indels	0;
		Gaps	0;

Qy	1 ATGACCACACAGGCCATGG 21
Db	357 ATGACTACTCAAGGCCATGG 377

FEATURES

Source	Location/Qualifiers	Value
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/db_xref="taxon:9606"		
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/sex="male"		
/clone_idb="CIT Approved Human Genomic Sperm Library D"		
/note="Organ: sperm; Vector: pBelobAC11; BAC Clones in E-Coli DH10B"		

<http://www.ncbi.nlm.nih.gov/blast/>

Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and EcoRI Methylase. Size selected DNA was cloned into the pBACE3.6 vector at EcoRI sites."

FEATURES

Source	Location/Qualifiers	Value
1..356	/organism="Homo sapiens"	
/mol_type="mRNA"		
/db_xref="taxon:9606"		
/clone="DKFZp61M224"		
/issue_type="amygdala"		
/dev_stage="adult"		
/lab_host="DH10B"		
/clone_idb="761 (Synonym: hamy2)"		
/note="Vector: pSport1; Site_1: NotI; Site_2: SalI"		

ORIGIN

Query Match	Score	DB	Length
Best Local Similarity	84.8%	1	356
Matches	19;	Le+03;	
Conservative	0;	Mismatches	2;
		Indels	0;
		Gaps	0;

Qy	1 ATGACCACACAGGCCATGG 21
Db	210 ATGACCACACAGGCCATGG 230

RESULT 9

Query Match	Score	DB	Length
Best Local Similarity	90.5%	1	456
Matches	19;	Le+03;	
Conservative	0;	Mismatches	2;
		Indels	0;
		Gaps	0;

Qy	1 ATGACCACACAGGCCATGG 21
Db	357 ATGACTACTCAAGGCCATGG 377

FEATURES

Source	Location/Qualifiers	Value
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/sex="male"		
/clone_idb="CIT Approved Human Genomic Sperm Library D"		
/note="Organ: sperm; Vector: pBelobAC11; BAC Clones in E-Coli DH10B"		

Query Match	Score	DB	Length
Best Local Similarity	90.5%	1	482
Matches	19;	Le+03;	
Conservative	0;	Mismatches	2;
		Indels	0;
		Gaps	0;

Qy	1 ATGACCACACAGGCCATGG 21
Db	161 ATGACTACTCAAGGCCATGG 181

FEATURES

Source	Location/Qualifiers	Value
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/db_xref="taxon:9606"		
/clone="Plate:340 Col=3 Row=I"		
/sex="male"		
/clone_idb="RPCI-11 Human Male BAC Library"		
/note="Vector: pBACE3.6; Site_1: EcoRI; Site_2: EcoRI;"		

<http://www.ncbi.nlm.nih.gov/blast/>

genomic clone Plate=8805 Col=7 Row=B, genomic survey sequence.

ACCESSION AQ880134
VERSION AQ880134.1
KEYWORDS GSS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1 (bases 1 to 486)
Authors Mahairas, G.C., Wallace, J.C., Smith, K., Swartzell, S., Holzman, T., Keller, A., Shaker, R., Furlong, J.J., Young, J.J., Zhao, S., Adams, M.D. and Hood, L.
Title Sequence-tagged connectors: A sequence approach to mapping and scanning the human genome
Proc. Natl. Acad. Sci. U.S.A. 96 (17), 9739-9744 (1999)
JOURNAL 99380569
PUBLMED 10449764
COMMENT Contact: Mahairas GG, Wallace JC, Hood L
High Throughput Sequencing Center
University of Washington
401 Queen Anne Avenue North, Seattle, WA 98109, USA
Tel: (206) 616-3618
Fax: (206) 616-3887
Email: jwallace@u.washington.edu
Clones are derived from the human BAC library RPCI-11. For BAC library availability, Please contact Pieter de Jong (pieter@dejong.med.buffalo.edu). Clones may be purchased from BACPAC Resources (<http://bacpac.med.buffalo.edu/ordering-bac.htm>) or from Research Genetics (<http://www.resgen.com>). BAC end Web-Server:
Plate: 8805 row: B column: 7
Seq primer: T7
Class: BAC ends
High quality sequence stop: 486.
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/mol_type="genomic DNA"
/db_xref="taxon:9606"
/sex="male"
/clone="Plate=8805 Col=7 Row=B"
/clone_lib="RPCI-11 Human Male BAC Library"
/note="Vector: BACCE3.6; Site 1: EcoRI; Site 2: EcoRI;
Male blood DNA was isolated from one randomly chosen donor and partially digested with a combination of EcoRI and BACCE3.6 vector at EcoRI sites".
ORIGIN Query Match 84.8%; Score 17.8; DB 8; Length 486;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
RESULT 12
LOCUS B1536734/C
DEFINITION MARC 4BOV Bos taurus cDNA 5', mRNA sequence.
VERSION B1536734.1
ACCESSION GI:15377844
SOURCE EST
ORGANISM Bos taurus (cow)
REFERENCE 1 (bases 1 to 536)
Authors Casas, E., Wray, J.E., White, J., Cho, J., Fahrenkrug, S.C., Bennett, G.L., Heaton, M.P., Laegreid, W.W., Rohrer, G.A., Chitko-McKown, C.G., Perete, G., Holt, I., Karamchava, S., Quackenbush, J., and Keele, J.W.
Title Sequence evaluation of four pooled-tissue normalized bovine cDNA libraries and construction of a gene index for cattle
Journal Genom. Res. 11 (4), 626-630 (2001)
Medline 21180013
Pubmed 11282978

Parsons, J., Rifkin, L., Rohlfing, T., Soares, M., Tan, F., Trevaskis, E., Waterston, R., Williamson, A., Wohldmann, P., and Wilson, R.
TITLE The WashU-Merck EST Project
JOURNAL Unpublished (1995)
COMMENT Contact: Wilson RK
Washington University School of Medicine
4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108
Tel: 314 286 1800
Fax: 314 286 1810
Email: est@watson.wustl.edu
Insert Size: 1446
Source: IMAGE Consortium, LINN
This clone is available royalty-free through LINN; contact the IMAGE Consortium (info@image.llnl.gov) for further information.
Insert Length: 1446 Std Error: 0.0
Seq primer: M13RP1
High quality sequence stop: 332.
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/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="GDB:403197"
/db_xref="Taxon:9606"
/clone="IMAGE:30850"
/sex="female"
/dev_stage="73 days post natal"
/lab_name="IDH108 (ampicillin resistant)"
/clone_idb="Soares infant brain INIB"
/note="Organ: whole brain; Vector: Lafmid BA; Site 1: Not I; Site 2: Hind III; 1st strand cDNA was primed with a Not I - Oligo(dT) primer [5'-AACTGAGAATTCCGGCCCCAGGAAATTCTTTTTTTTTT 3']";
double-stranded cDNA was ligated to Hind III adaptors (Pharmacia), digested with Not I and directionally cloned into the Not I and Hind III sites of the Lafmid BA vector. Library went through one round of normalization. Library constructed by Bento Soares and M. Patima Bonaldo."
ORIGIN Query Match 84.8%; Score 17.8; DB 7; Length 506;
Best Local Similarity 90.5%; Pred. No. 1.1e+03;
Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
Qy 1 ATGACCACACAAGCAGATGG 21
Db 291 ATGACCACAGGACATGG 311
ORGANISM Bos taurus
REFERENCE 1 (bases 1 to 536)
Authors Smith, T.P.L., Gross, W.M., Fraking, B.A., Roberts, A.J., Stone, R.T., Casas, E., Wray, J.E., White, J., Cho, J., Fahrenkrug, S.C., Bennett, G.L., Heaton, M.P., Laegreid, W.W., Rohrer, G.A., Chitko-McKown, C.G., Perete, G., Holt, I., Karamchava, S., Liang, F., Quackenbush, J., and Keele, J.W.
Title Sequence evaluation of four pooled-tissue normalized bovine cDNA libraries and construction of a gene index for cattle
Journal Genom. Res. 11 (4), 626-630 (2001)
Medline 21180013
Pubmed 11282978

COMMENT
 Contact: Smith TPL
 USDA, ARS, US Meat Animal Research Center
 PO Box 166, Clay Center, NE 68933-0166, USA
 Tel: 402 762 4366
 Fax: 402 762 4390
 Email: smith@email.marc.usda.gov
 Single pass sequencing. Bases called and alt trimmed with phred v0.980904.e. Vector identified by cross_match with the -minscore 18 and -minmatch 12 options.
 PCR PRIMERS
 FORWARD: AGGAAACACTATGACCAT
 BACKWARD: GTTTCCGAGTCAGCAGC
 Plate: 119 row: O column: 2
 Seq primer: ATTTAGTGACACTATAAG
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 /tissue_type="pool,d3"
 /lab_hoib="DRI10B"
 /clone_idb="MARC 4BOV"
 /note="vector: PCMV SPORT6; site 1: NotI; site 2: SalI;
 library made from pooled tissue from day 20 and day 40
 embryos."
 FEATURES
 source

ORIGIN

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Best Local Similarity	90.5%	Pred. No. 1.1e+03;		
Matches 19;	Conservative 0;	Mismatches 2;	Indels 0;	Gaps 0;
Qy	1 ATGACCAACACAAGGGCAGATGG 21			
Db	28 ATGACCACGCAAGGCAGATAG 8			

RESULT 13

LOCUS	CE836567	543 bp	DNA	GSS 30-SEP-2003
DEFINITION	tigr-gss-dog-1700032589366	Dog	Library	Canis familiaris genomic,
GENOMIC SURVEY SEQUENCE.	CE836567			
ACCESSION	CE836567..1	GI:37177587		
VERSION				
KEYWORDS	GSS, Canis familiaris (dog)			
SOURCE	Canis familiaris			
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
MAMMALIA	Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.			
REFERENCE	1. (bases 1 to 541)			
AUTHORS	Kirkness,E.F., Bafna,V., Halpern,A.L., Levy,S., Remington,K., Rusch,D.B., Delcher,A.L., Pop,M., Wang,W., Fraser,C.M. and Venter,J.C.			
TITLE	The dog genome: survey sequencing and comparative analysis			
JOURNAL	Science 301 (5641), 1898-1903 (2003)			
MEDLINE	22875432			
PUBMED	14512627			
COMMENT	Contact: Kirkness EF The Institute for Genomic Research Department of Eukaryotic Genomics, TIGR, Rockville, MD 20850, USA			

FEATURES
 source
 Tel.: 301-838-0200
 Fax: 301-838-0208
 Email: ekirkness@tigr.org
 Class: shotgun
 Location/Qualifiers
 1. 543
/organism="Canis familiaris"
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/clone_id="Dog Library"
/note="Site 1: BstXI; Libraries were prepared from peripheral blood"

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		Db	CF804618	LOCUS	90.5%	Pred. No. 1.1e-03;	EST 24-OCT-2005				
			DEFINITION	lad76d11.y1	Gastric Epithelial Progenitor 2	Mus musculus cDNA 5'					
				similar to SW:RO1_BOVIN_P98867 HETEROGENEOUS NUCLEAR							
			ACCESSION	CF804618	RIBONUCLEOPROTEIN A1	; mRNA sequence.					
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			KEYWORDS	EST.							
			SOURCE	Mus musculus (house mouse)							
			ORGANISM	Mus musculus	Chordata; Craniata; Vertebrata; Buteleostomi; Mammalia; Eutheria; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Murinae; Mus.						
			REFERENCE	1 (bases 1 to 547)	Tidwell,R., Clifton,S., Marra,M., Hillier,L., Bape,D., Martin,J., Wylie,T., Theising,B., Bowers,Y., Gibbons,M., Ritter,E., Bennet,J., Ronko,I., Tsagarakishvili,R., Belaygozod,L., Grow,A., Maguire,L., Watsonson,R. and Wilson,R.						
			AUTHORS								
			TITLE		WashU Stem cell EST Project						
			JOURNAL		Unpublished (2002)						
			COMMENT	Contact: Jeff Gordon and Mike Lovett							
				WashU, Human Genetics Division							
				Washington University School of Medicine							
				1st strand of cDNA was synthesized with reverse transcriptase and							
				oligo (dt) beads, then cDNA was amplified by PCR using modified							
				SMART primers. The final cDNA was cloned in pAMP1 vector in							
				annealing reaction with Uridine DNA Glycosylase (UDG). Library							
				constructed by Y Korshunova and M. Lovett. Library materials							
				provided by Mills JC & Gordon JI.							
				Putative full length read							
				vector to vector length is							
				vector from Gibco.							
			FEATURES	Seq primer: -40RP from Gibco.							
			Source								
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				/lab_host="Disalpia"							
				/clone_lib="Gastric Epithelial Progenitor 2"							
				/note="Vector: pAMP1; 1st strand of cDNA was synthesized with reverse transcriptase and oligo (dt) beads, then cDNA was synthesized with PCR using modified SMART primers. The final cDNA was cloned in pAMP1 vector in annealing reaction with Uridine DNA Glycosylase (UDG). Library constructed by Y Korshunova and M. Lovett. Library materials provided by Mills JC & Gordon JI."							

ORIGIN	Query	Match	Score	DB	Length
		84.8%	17.8	7	547
		Best Local Similarity	90.5%	Pred. No.	1..1e-03;
		Matches	19;	Mismatches	2;
		Conservative	0;	Indels	0;
				Gaps	0
Qy	1	ATGACCAACAGGGCAGATGG			21
Dh	372	AAGACCAACAGGGCAGATGG			392

/clone lib="Dog Library"
/note="Site 1: BstXI; Libraries were prepared from
peripheral blood"

LOCUS BJ200351 558 bp mRNA linear EST 21-OCT-2003
 DEFINITION BJ200351 normalized full length cDNA library, chloronemata, caulonemata and rhizoid-like protonemata Physcomitrella patens subsp. patens cDNA clone pphn3g23 5', mRNA sequence.

ACCESSION BJ200351.1 GI:18368266
 VERSION EST
 KEYWORDS
 SOURCE Physcomitrella patens subsp. patens
 ORGANISM Physcomitrella patens subsp. patens

Eukaryota; Viridiplanteae; Streptophytina; Embryophyta; Bryophyta; Bryopsida; Funariales; Funariaceae; Physcomitrellales

REFERENCE 1 (bases 1 to 558)

AUTHORS Nishiyama, T., Fujita, T., Shin-i, T., Seki, M., Nishide, H., Uchiyama, I., Kami, A., Carninci, P., Hayashizaki, Y., Shinozaki, K., Kohara, Y. and Hasebe, M.

TITLE Comparative genomics of Physcomitrella patens gametophytic transcriptome and Arabidopsis thaliana: implication for land plant evolution

JOURNAL Proc. Natl. Acad. Sci. U.S.A. 100 (13), 8007-8012 (2003)

MEDLINE 22709184
 PUBMED 12808149
 COMMENT Contact: Tadasu Shin-i
 Center For Generic Resource Information
 National Institute of Genetics
 1111 Yata, Mishima, Shizuoka 411-8540, Japan
 Tel: 81-559-81-6856
 Fax: 81-559-81-6855
 Email: tshini@gnes.nig.ac.jp

A backbone of the vector is basically from pBluescript II (KS), that was in vivo excised from a λ-phage vector (Carninci et al. 2001). 5' end of the cDNA that was digested with XbaI was ligated to Sali site of the vector and the 3' end including polyA tail was ligated to BamHI site of the vector (5'-GAGAGAGAAGGATCCAACCTGGAGAGTTTTTTTNN-3') was used as a 1st 3' primer, and 5'-GGTTCTGAGTCATCGTGTTCCAGAAGCTGAGACTCGAGAACGNNNNNN-3', as 2nd 5'-hairpin primer, giving the following 5' boarder sequence, AGGCCAAATCGCCGAGCTCAATGCTGAGAACGG. cDNA insert could be amplified with conventional T7 and T3 primers. This full-length cDNA library was generated according to the method described in Nishiyama et al. (2003).

Protonemata were blended by the POLYTRON, and then cultivated on the BCDATG medium for 13–14 days under the continuous light. These clones are available from RIKEN Bio Resource Center (<http://www.brc.riken.go.jp/lab/epd/EngIndex.html>). The database of Physcomitrella EST clones is available at the PHYSCObase (<http://moss.nibb.ac.jp/>).

FEATURES Location/Qualifiers

SOURCE 1. .558 /organism="Physcomitrella patens subsp. patens"
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ORIGIN

Query Match 84.8%; Score 17.8; DB: 4; Length 558;
 Best Local Similarity 90.5%; Pred. No. 1.1e+03;
 Matches 19; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

Qy	1 ATGACCACACAAAGCAGATGG	21
Db	49 ATGACAAACACAAAGCAGATGG	29

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 Job time : 100.458 sec

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Result No.	Score	Query Match	Length DB	ID	Description
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2	1136	100.0	1938	14 AY534762S6	AY534767 SARS coro
3	1136	100.0	2810	14 AY534752	AY290752 SARS coro
4	1136	100.0	8581	14 AY204487	AY204487 SARS coro
5	1136	100.0	11010	14 AY204493	AY304493 SARS coro
6	1136	100.0	11010	14 AY204494	AY304494 SARS coro
7	1136	100.0	13471	14 AY204492	AY304492 SARS coro
8	1136	100.0	29013	14 AY630060	AY630060 SARS coro
9	1136	100.0	29350	14 AY594999	AY394999 SARS coro
10	1136	100.0	29350	14 AY295000	AY395000 SARS coro
11	1136	100.0	29350	14 AY395001	AY395001 SARS coro
12	1136	100.0	29350	14 AY595002	AY395002 SARS coro
13	1136	100.0	29573	14 AY294985	AY294985 SARS coro
14	1136	100.0	29573	14 AY338174	AY338174 SARS coro
15	1136	100.0	29573	14 AY338175	AY338175 SARS coro
16	1136	100.0	29573	14 AY248314	AY248314 SARS coro
17	1136	100.0	29592	14 AY559094	AY559094 SARS coro
18	1136	100.0	29592	14 AY63059	AY63059 SARS coro
19	1136	100.0	29620	14 AY395004	AY395004 SARS coro

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OM nucleic - nucleic search, using sw model

Run on: May 15, 2005, 11:00:45 ; Search time 5188.09 Seconds
(without alignments)

10609.895 Million cell updates/sec

Title: US-10-764-075-1

Perfect score: 1136

Sequence: 1 aggcattgtatggttgcaa.....tgaataatgtctaggagac 1136

Scoring table: IDENTITY_NUC GapOp 10_0 , Gapext 1.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416466

Minimum DB seq length: 0

Maximum DB seq length: 20000000000

Post-processing: Minimum Match 0% Maximum Match 100%

Listing first 45 summaries

Database : GenEmbl:
1: gb ba: *
2: gb_htg: *
3: gb_in: *
4: gb_om: *
5: gb_ov: *
6: gb_Pat: *
7: gb_ph: *
8: gb_Pl: *
9: gb_Pr: *
10: gb_ro: *
11: gb_sts: *
12: gb_sy: *
13: gb_un: *
14: gb_vii: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No. Score Query Match Length DB ID Description

1 1136 100.0 1873 14 AY5347584 AY534761 SARS coro

2 1136 100.0 1938 14 AY534762S6 AY534767 SARS coro

3 1136 100.0 2810 14 AY534752 AY290752 SARS coro

4 1136 100.0 8581 14 AY204487 AY204487 SARS coro

5 1136 100.0 11010 14 AY204493 AY304493 SARS coro

6 1136 100.0 11010 14 AY204494 AY304494 SARS coro

7 1136 100.0 13471 14 AY204492 AY304492 SARS coro

8 1136 100.0 29013 14 AY630060 AY630060 SARS coro

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17 1136 100.0 29592 14 AY559094 AY559094 SARS coro

18 1136 100.0 29592 14 AY63059 AY63059 SARS coro

19 1136 100.0 29620 14 AY395004 AY395004 SARS coro

ALIGNMENTS

RESULT 1
A15347584

LOCUS AY5347584 SARS coronaivirus Sin0409, partial sequence.

DEFINITION SARS coronaivirus. VRL 17-MAR-2004

ACCESSION AY534761 AY534761 GI:45384968

KEYWORDS AY559093

SEGMENT 4 of 4

SOURCE SARS coronaivirus Sin0409

ORGANISM SARS coronaviruses Sin0409

VIRUSES ssRNA Positive-strand viruses, no DNA stage; Nidovirales; Coronaviridae; Coronaviruse.

REFERENCE 1 (bases 1 to 1873)

AUTHORS Lim,P.L., Kurup,A., Gopalakrishna,G., Chan,K.P., Wong,C.W., Ng,L.C., Se-Thee,S.Y., Oon,L., Bai,X., Stanton,L.W., Ruan,Y., Miller,L.D., Vega,V.B., James,L., Ooi,P.L., Kai,C.S., Olsen,S.J., Ang,B. and Leo,Y.S.

TITLE Laboratorily-acquired severe acute respiratory syndrome (SARS) - Singapore 2003

JOURNAL Unpublished

AUTHORS Wei,C.L., Lee,C., Lin,S., Thoreau,H., Vega,V.B., Stanton,L.W. and Ruan,Y.

JOURNAL Direct Submission (28-JAN-2004) Genome Institute of Singapore, 60, Biopolis Street, 02-01, Genome, Singapore 138672, Singapore

FEATURES Location/Qualifiers 1..1873

Source /organism="SARS coronavirus" Sin0409"

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ORIGIN

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ORIGIN

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Db 1654 CGCGCAATCTTAACATGCTCCACCGTCTACACTCTCTCAAGGAACACATTGCC 1713
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Db 1714 AAGAGGCTTCTAGCCAGGGAGCAGCAGGGCGCASTCAAGGCTCTCTCCATC 1773
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Qy	421	CAACGTGACTCAAGCATTGGGAGACCTGGTCAGAACAAACCCAGGAATTTCGGGA	480	JOURNAL	Submitted (27-MAY-2003) Microbiology, The University of Hong Kong, Hong Kong, China
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Db	10441	CAACGTGACTCAAGCATTGGCACAATTGGCACAATTGGCACAATTGGC	10500		
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Qy	781	GEAGCCCACTGTGACTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCA	840	Qy	9841 CCGCATTCCTAATAACATGTCACCTGGGAGCTTGGATAACCCCAGGAAACATGGC
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Qy	841	AAATTCCATGACTGGGACTCTCTGATCTCAACTCAGGATAAACACTCATG	900	Qy	9961 181 ACGTAGTCGGGTAATTCAAGAAATTCAACCTCTGGAGTAGGGAAATTCTCC
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ACCESSION		AY304494	partial genome.	Qy	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
VERSION		AY304494.1	G1:34482145	Db	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
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SOURCE		SARS coronavirus HKU-66078		Db	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
ORGANISM		Coronaviridae: Coronaviridae		Qy	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
REFERENCE		SARS coronavirus HKU-66078		Db	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
AUTHORS		Coronavirus. Guan,Y., Zheng,B.J., He,Y.Q., Liu,X.L., Zhuang,Z.X., Cheung,C.L., Luo,S.W., Li,P.H., Zhang,L.J., Guan,Y.J., Butt,K.M., Wong,K.L., Chan,K.W., Lim,W., Shortridge,K.F., Yuen,K.Y., Peiris,J.S.M., and Poon,L.L.M.		Qy	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
TITLE		Isolation and characterization of viruses related to the SARS		Db	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
JOURNAL		Science 302 (5643), 276-278 (2003)	VRL 05-NOV-2003	Qy	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
MEDLINE		22913660		Db	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
PUBMED		12958366		Qy	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
REFERENCE		2 (bases 1 to 11010).		Db	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
AUTHORS		Guan,Y. and Zheng,B.J.		Qy	10141 10201 481 CCAAGACCTTAATCGAACAGGAACCTGAAATTGGCAATTGGC
TITLE		Direct Submission			

FEATURES	source
Viruses; ssRNA positive-strand viruses, no DNA stage; Nidovirales;	
Coronaviridae; Coronavirus.	
1. (bases 1 to 29013)	
AUTHORS Yuan,Z., Zhang,X., Hu,Y., Lan,S., Zhou,Z., Wang,H. and Wen,Y.	
TITLE Analysis of SARS coronavirus genome in Shanghai isolates	
JOURNAL Unpublished	
REFERENCE 2 (bases 1 to 29013)	
AUTHORS Yuan,Z., Zhang,X., Hu,Y., Lan,S., Zhou,Z., Wang,H. and Wen,Y.	
TITLE Direct Submission	
Submitted (11-NOV-2003) Key Lab of Medical Molecular Virology,	
Shanghai Medical University, Fudan University, 138 Yi Xue Yuan Road,	
200032, P.R. China	
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CDS

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24601

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Py	Best Local Similarity	100.0%	Pred. No. 0;	Mismatches 0;	Indels 0;	Gaps 0;
Py	Matches 1136;	Conservative 0;				
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b	28497 CGCATCTCTTAATAACAATGTGCCCCACCTGTCTAGAACACATTTGCC	28551				
b	121 AAAAGCCTTCTACGGAGGGAAAGAGAGAGGGGGGTCAAGCTCTTCGCTCTCTCATC	180				
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b	29217 GCAGGCCACTGTGACTCTCTGGCTGAAAGCTGCTGAACTTCAGGCTAAACACTCATGATGACCAC	940				
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y	961 TTGTGTCAGATGTAATCTCGTAACTAAAGCAAGTAACTTAACTTAACTTAACTTAACTTC	1020				

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OM nucleic - nucleic search, using sw model

Run on: May 15, 2005, 10:35:37 ; Search time 713.805 Seconds
(without alignments)
9421.101 Million cell updates/sec

Title: US-10-764-075-1

Perfect score: 1136

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Scoring table: IDENTITY_NUC
Gapext 1.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780412

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

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Marketing first 45 summaries

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12:	genesegn2004as:*			
13:	genesegn2004bs:*			
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.	SUMMARIES			
Result No.	Score	Query Match Length	DB ID	Description
1	1136	100.0	29751	12 ADJ39000 SARS coro
2	48	4.0	2000	8 ADA71938 Rice gene
3	42	3.7	200	8 ABX14055 Mouse POZ
c 4	41.8	3.7	7359	6 AB13863 Human imm
c 5	40.4	3.6	463	8 ABX14053 Mouse Dox
c 6	40.2	3.5	2543	6 ABQ43613 Oligonucle
c 7	40.2	3.5	2543	6 ABQ43612 Oligonucle
c 8	39.2	3.5	9830	6 ABK31241 Signal tr
c 9	39.2	3.5	9830	6 ABL70196 Chemical
c 10	39.2	3.5	9830	6 AAS61154 Human Gen
c 11	39.2	3.5	9830	6 ABN80063 Human che
c 12	39	3.4	481	5 ABV57028 Human pro
c 13	39	3.4	5284	12 ADQ4871 Human pro
c 14	38.8	3.4	982	12 ADT74375 Rat cDNA
c 15	38.6	3.4	2000	8 ADA71938 Rice gene
c 16	38.2	3.4	6001	13 ADS9755 Oligonucle
c 17	38	3.3	8305	6 ABL33568 Human imm
c 18	37.8	3.3	2748	12 ADPBP8643 C. albica
c 19	37.6	3.3	236246	12 ADQ97590 Mouse can
c 20	37.4	3.3	10000	9 ADB23206 Environment
RESULT 1				
ADJ39000				
ID ADJ39000 standard; DNA; 29751 BP.				
XX				
AC				
XX				
DT 06-MAY-2004 (first entry)				
XX				
DB SARS coronavirus nucleotide sequence.				
XX				
KW small interfering RNA; siRNA; modified ribonucleotide;				
KW viral inhibition; hepatitis; HCV; hepatitis C;				
KW antiinflammatory; hepatotropic; virucide; hepatitis A virus;				
KW hepatitis D virus; hepatitis E virus; Ebola virus; influenza virus;				
KW rotavirus; reovirus; retrovirus; poliovirus; human papilloma virus;				
KW metapneumovirus; coronavirus; viral infection; gene; ds-				
XX				
XX				
OS SARS coronavirus.				
XX				
PN WO2004011647-A1.				
XX				
PD 05-FEB-2004.				
XX				
PP 25-JUL-2003 ; 2003WO-US023104 .				
XX				
PR 26-JUL-2002 ; 2002US-0398605P .				
XX				
PA (CHIR) CHIRON CORP .				
XX				
PI Han J, Seo MY, Houghton M,				
XX				
DR WPI ; 2004-143862/14 .				
XX				
PT New RNase resistant small interfering RNA, useful for treating viral infections, e.g., hepatitis C, influenza virus or coronavirus infection.				
XX				
PS Example 10 ; Fig 3 ; 74PP ; English.				
XX				
CC The present invention describes a small interfering RNA (siRNA) which				
CC comprises a modified ribonucleotide, where the siRNA is resistant to				
CC RNase and retains the ability to inhibit viral replication. Also				
CC described: (1) inactivating a virus in a patient; (2) making a modified				
CC siRNA that targets a nucleic acid sequence in a virus; (3) a double-				
CC				

CC stranded RNA molecule of 10-30 nucleotides that inhibits replication of hepatitis C virus (HCV); (4) inducing targeted RNA interference toward HCV in hepatic cells; (5) inhibiting replication of HCV; (6) a vector comprising a DNA segment encoding the RNA molecule; (7) a host cell comprising the vector of (6); (8) inhibiting replication of HCV in cells comprising a double-stranded RNA molecule of 10-30 nucleotides in length, which mediates RNA interference toward a target agent of virus and is linked to at least one receptor-binding ligand; and (11) inducing targeted RNA interference in a patient. The modified siRNAs molecules have antiinflammatory, hepatotropic and virucide activities. The modified RNA molecules are useful for inhibiting virus in mammalian cells. The siRNAs are useful for treating hepatitis C virus, hepatitis A virus, hepatitis D virus, hepatitis E virus, Ebola virus, influenza virus, rotavirus, reovirus, papilloma virus, metapneumovirus or coronavirus infections. The methods of the invention can be used to correct or compensate for cellular physiological abnormalities involved in conferring susceptibility to viral infections in patients and/or alleviate symptoms of a viral infection in patients. The present sequence represents the SARS coronavirus nucleotide sequence, which is used in an example from the present invention.

xx Sequence 29751 BP; 8478 A; 5941 C; 6188 G; 9144 T; 0 U; 0 Other;

Query Match Score 1136; DB 12; Length 29751;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1136; Conservative 0; Mismatches 0; Indels 0;

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Qy 61 CGCCAACTCTTAATACATGCCAACCTGTCAACATTCTCAGGAAACAACTTGGCC 120

Db 28566 CGCCAATCTTAATACATGCCAACCTGTCAACATTCTCAGGAAACAACTTGGCC 28625

Qy 121 AAAAGGTTCTAGCAGAGGGAGCAGAGGGAGCACTTCAGGCGCAGTCAGGCTCTTCCTCTCATC 180

Db 28626 AAAAGGTTCTAGCAGAGGGAGCAGAGGGAGCACTTCAGGCGCAGTCAGGCTCTTCCTCTCATC 28685

Qy 181 ACCTAGTGCCTTAATCGAAGAAATTCAACTCTGGAAAGCTGGAAATTCTCTGC 240

Db 28686 AGTAGTGCCTTAATCGAAGAAATTCAACTCTGGAAAGCTGGAACTCTGCAGTGGAAATTCTCTGC 28745

Qy 241 TCGAATGCTCTAGCGGGAGTGTGGAAACTGCCTCTGGCTAGACAGATTGAA 300

Db 28746 TCGAATGCTCTAGCGGGAGTGTGGAAACTGCCTCTGGCTAGACAGATTGAA 28805

Qy 301 CCAGCTTGAGGCAAAGTTCTGTAAAGGCCAACAAACAGGCCAAACTGTCACTAA 360

Db 28806 CCAGCTTGAGGCAAACCTTCTGGTAAGGCCAACAAACAGGCCAAACTGTCACTAA 28865

Qy 361 GAATCTCTGTGGCTAGGAACTTCTGGTAAGGCCAACAAACAGGCCAAACTGTCACTAA 420

Db 28866 GAATCTGTGTGGCTAGGAACTTCTGGTAAGGCCAACAAACAGGCCAAACTGTCACTAA 28925

Qy 421 CAACGTCACTCAAGCAATTGGGAGACGTGGTCAAGACAAACCAAGGGAAATTTCGGGGA 480

Db 28926 CAACGTCACTCAAGCAATTGGGAGACGTGGTCAAGACAAACCAAGGGAAATTTCGGGGA 28985

Qy 481 CCAGACCTTAATCGAGAGGAACTGTAAACATGGCCAAATGTCAAACTTGGCAATTGGC 540

Db 28986 CCAGACCTTAATCGAGAGGAACTGTAAACATGGCCAAATGTCAAACTTGGCAATTGGC 29045

Qy 541 TCCAAGTGCCTCTGCACTTGTGGAACTTCAGGAAACTCAACCTTCGGG 600

Db 29046 TCCAAGTGCCTCTGCACTTGTGGAACTTCAGGAAACTCAACCTTCGGG 29105

Qy 601 AACATGGCTGACTTATCGAGGCCATTAAATTGGATGACAAGAATTCACATTCAAGGA 660

Db 29106 AACATGGGTGACTTATCGAGGCCATTAAATTGGATGACAAGAATTCACATTCAAGGA 29165

Qy 661 CAAAGTCATACTGCTGAACAGCACATTGACGATACAAACATTCACCAACAGGCC 720

CC	stranded RNA molecule of 10-30 nucleotides that inhibits replication of hepatitis C virus (HCV); (4) inducing targeted RNA interference toward HCV in hepatic cells; (5) inhibiting replication of HCV; (6) a vector comprising a DNA segment encoding the RNA molecule; (7) a host cell comprising the vector of (6); (8) inhibiting replication of HCV in cells comprising a double-stranded RNA molecule of 10-30 nucleotides in length, which mediates RNA interference toward a target agent of virus and is linked to at least one receptor-binding ligand; and (11) inducing targeted RNA interference in a patient. The modified siRNAs molecules have antiinflammatory, hepatotropic and virucide activities. The modified RNA molecules are useful for inhibiting virus in mammalian cells. The siRNAs are useful for treating hepatitis C virus, hepatitis A virus, hepatitis D virus, hepatitis E virus, Ebola virus, influenza virus, rotavirus, reovirus, papilloma virus, metapneumovirus or coronavirus infections. The methods of the invention can be used to correct or compensate for cellular physiological abnormalities involved in conferring susceptibility to viral infections in patients and/or alleviate symptoms of a viral infection in patients. The present sequence represents the SARS coronavirus nucleotide sequence, which is used in an example from the present invention.	Db	29166 CAACGTCACTCAAGCAATTGGTCAAGACAAACATTCACCAACAGGCC 29225
CC	Query 721 TAAAGAGCAAAAGAAAAGACTGATGAGCTAGCCATTGGCCAGAGCAAAAGAA 780	Qy	721 TAAAGAGCAAAAGAAAAGACTGATGAGCTAGCCATTGGCCAGAGCAAAAGAA 780
CC	Db 29226 TAAAGAGCAAAAGAAAAGACTGATGAGCTAGCCATTGGCCAGAGCAAAAGAA 29285	Db	29226 TAAAGAGCAAAAGAAAAGACTGATGAGCTAGCCATTGGCCAGAGCAAAAGAA 29285
CC	Query 781 GCAGCCCACGTGACCTCTCTGGCTGACTGGTCAACTGATGAACTTCATCTCA 840	Qy	781 GCAGCCCACGTGACCTCTCTGGCTGACTGGTCAACTGATGAACTTCATCTCA 840
CC	Db 29286 GCAGCCCACGTGACCTCTCTGGCTGACTGGTCAACTGATGAACTTCATCTCA 29345	Db	29286 GCAGCCCACGTGACCTCTCTGGCTGACTGGTCAACTGATGAACTTCATCTCA 29345
CC	Query 841 AAATTCATGAGTGGAGCTCTGCTGATCAACTCAGGCTAAACACTCATGATGACCC 900	Qy	841 AAATTCATGAGTGGAGCTCTGCTGATCAACTCAGGCTAAACACTCATGATGACCC 900
CC	Db 29346 AAATTCATGAGTGGAGCTCTGCTGATCAACTCAGGCTAAACACTCATGATGACCC 29405	Db	29346 AAATTCATGAGTGGAGCTCTGCTGATCAACTCAGGCTAAACACTCATGATGACCC 29405
CC	Query 901 ACAAGGAGATGGGTATGTAACCTGGTTACGATACTAGTCTACTC 960	Qy	901 ACAAGGAGATGGGTATGTAACCTGGTTACGATACTAGTCTACTC 960
CC	Db 29406 ACAAGGAGATGGGTATGTAACCTGGTTACGATACTAGTCTACTC 29465	Db	29406 ACAAGGAGATGGGTATGTAACCTGGTTACGATACTAGTCTACTC 29465
CC	Query 961 TTGTGCAAGATGAACTTCGTAACTAAACCCACAGTAGTTAACCTTAACTTCATCTC 1020	Qy	961 TTGTGCAAGATGAACTTCGTAACTAAACCCACAGTAGTTAACCTTAACTTCATCTC 1020
CC	Db 29466 TTGTGAGAAAGAATCTCGAATACAGCACAGTAGTTAACCTTAACTTCATCTC 29525	Db	29466 TTGTGAGAAAGAATCTCGAATACAGCACAGTAGTTAACCTTAACTTCATCTC 29525
SQ	RESULT 2 ADA71938 standard; DNA; 2000 BP.		
	xx ID ADA71938 standard; DNA; 2000 BP.	xx	
	xx AC ADA71938;	xx	
	xx DT 20-NOV-2003 (first entry)	xx	
	xx Rice gene, SEQ ID 5263.	xx	
	xx DE Plant; bacterial infection; fungal infection; rice;	xx	
	xx KW gene; ds.	KW	
	xx OS Oryza sativa.	OS	
	xx PN WO2003000898-A1.	PN	
	xx XX WO2003000898-A1.	XX	
	xx PD 03-JAN-2003.	PD	
	xx XX 22-JUN-2001; 2001WO-IB001105.	XX	
	xx PR 22-JUN-2001; 2001WO-IB001105.	PR	
	xx XX (SYGN) SYNGENTA PARTICIPATIONS AG.	XX	
	xx PI Chang H, Chen W, Cooper B, Glazebrook J, Goff SA, Hou Y, Katagiri F, Quan S, Tao Y, Whitham S, Xie Z, Zhu T, Zou G;	PI	
	xx PI XX	PI	
	xx DR WPI; 2003-175290/17.	DR	
	xx PT Identifying at least one gene involved in plant resistance or response to pathogenic infection for conferring resistance or tolerance to a plant bacterial, fungal or viral infection by determining or detecting plant gene expression.	PT	
	xx PT XX	PT	
	xx PA Claim 27; SEQ ID NO 5263; 899bp; English.	PA	
	xx PS The present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection, M1 comprises identifying a gene whose expression is significantly altered in the incompatible interaction of plant gene expression relative to	PS	
	xx CC CC	CC	
	xx CC CC	CC	
	xx CC CC	CC	
	xx CC CC	CC	

CC expression of the gene in an uninfected plant, in a mutant plant that does not express a gene associated with response to pathogenic infection, or in a corresponding incompatible or compatible interaction. (M1) is useful for conferring resistance to resistance or tolerance to a plant to bacterial, fungal or viral infection. The present sequence was used to illustrate the invention.

XX Sequence 2000 BP; 336 A; 265 C; 284 G; 363 T; 0 U; 752 Other;

Query Match 4.2%; Score 4B; DB 8; Length 200;
Best Local Similarity 8.7%; Pred. No. 0.002; Mismatches 397; Indels 0; Gaps 0;

Matches 72; Conservative 357; N mismatches 397; Indels 0; Gaps 0;

XX SQ

102 CTCAGGAAACATGCCAAAAGGCTCTAGCAGAGGAAGCAGGGCAGTCAG 161

DB 12 CSSWRGRRMYMMAGMSARMGSSRMSSGRKMSKYSRKCSSCGCKMTTRRSKWSASS 71

QY 162 CCTCTTCGCTCTCATACGTAGTGCCTGTAATTCAAGAAATTCAACTCTTGAGCA 221

DB 72 ASRTGSKMSSGSYSKGKMKRYSKRSKMRGRGRGMRSRMWGRMGRVRRCARSGRMAGG 131

QY 222 GTAGGGAAATTCTCTGCTCGAATGGCTAGCGAAGCTGGCTCGCGTAT 281

DB 132 SGRMGKSRMSYNNWCYARGCGSCKRKSKRGSGSWKTRGRGAGGSSWISGARYKSASSM 191

QY 282 TGCTGCTAGACAGATTGAAACAGCTTGAGGCAAAGTTCTGGTAAAGGCCAACAAC 341

DB 192 SKRNWMSGRSGGRRSAYSRYGTSRKYGTGKMTYSASRCMRMATTYSWACSSY 251

QY 342 AAGCCAATTGTACTAAGAAATCTGGTGTGAGGATCTAAAGGCTGCGAAAAC 401

DB 252 TWCRSKRSMWWKMRKMRWSRSYGVWSYSKMMCTAYKKSYYSRWCYMYRGGGWRGAT 311

QY 402 GTRACTGCAACAAACAGTACAACCTCACTCAAGGATTGGAGACGTGCTCCAGAACAAA 461

DB 312 RYNGRYSRMMAMYKMRWYRGYKGRMGRWAGRMMSRSMCRVSKAYMFRMWRTR 371

QY 462 CCCAGGAAATTGGGACCAAGACCTAAATCAGACAAGGAACATGATACAAACATGGC 521

DB 372 RRRWAKKSRRTSRKKRKMCRKRYKMRGYSRMRSSCRARIMKRCRSGRAVKMGRG 431

QY 522 CGCAAATTGACAAATTGGCTCAAGCTCTGCTGATTTGAAATGTCACGATGGCA 581

DB 432 MTCRMKSIGMMRKSWKMSKTYKWMRWSKCSRTTMGKTRGMMGTMGRCYK 491

QY 582 TGGAGTCAACCTTGCCAAACATGGCTGAGGCTTAATTGGATGACA 641

DB 492 KRSGMKRCKRPRRMGRMWRKRYMRYMRYTMRWYTYRYSYMTYRWTSTRMAMTGMKYSGRWWT 731

QY 642 AAGATCCACAATTCAAAGACAACGTCATACTGCTGAAACAGCACATGGCATACAAA 701

DB 552 AGHMWKRKRYMVKMWWYKRYKSKCWSYKMSYASCMKSKARKGMRCKRSKMSAWS 611

QY 702 CATTCCCACCAACAGGCTAAAGGCAAAAGAAAGACTGATGAAGCTGAGCTT 761

DB 612 KSNRSSLRKCRKASKRSKAKRYAMMGMGTSGSRMSRWSKSYTCYWRKNSMSKSTCWTWNYM 671

QY 762 TGCGCAAGACAGACAAGAGCAGGCCACTGTGACTCTTCTCGGCCGTGACATGGATG 821

DB 672 SKTYARYGSWYRYYRACMYYRWWYTYRYSYMTYRWTSTRMAMTGMKYSGRWWT 731

QY 822 ATTCTCTCAGACAACCTCAAATTCATGAGCTGAGGCTTCGCTGATCAAACCTCAGGGAT 881

DB 732 SWRYCKCSWYKRYMWWYTWSSWAKTRWKMWRATRMMWYTYYSMCKWYTWTMMGWYWT 791

QY 882 AAACACTCATGATGACACACAAGGCAATGGCTATGAAAGCT 927

DB 792 WRRTYMKRUYMWYKCTKTYWWSATYWTGTTWAAMKTRMKGMT 837

QY 762 ABX14055; Score 42; DB 8; Length 200;

DB 672 SKTYARYGSWYRYYRACMYYRWWYTYRYSYMTYRWTSTRMAMTGMKYSGRWWT 731

QY 822 ATTCTCTCAGACAACCTCAAATTCATGAGCTGAGGCTTCGCTGATCAAACCTCAGGGAT 881

DB 732 SWRYCKCSWYKRYMWWYTWSSWAKTRWKMWRATRMMWYTYYSMCKWYTWTMMGWYWT 791

QY 882 AAACACTCATGATGACACACAAGGCAATGGCTATGAAAGCT 927

DB 792 WRRTYMKRUYMWYKCTKTYWWSATYWTGTTWAAMKTRMKGMT 837

QY 762 ABX14055; Score 42; DB 8; Length 200;

DB 672 SKTYARYGSWYRYYRACMYYRWWYTYRYSYMTYRWTSTRMAMTGMKYSGRWWT 731

QY 822 ATTCTCTCAGACAACCTCAAATTCATGAGCTGAGGCTTCGCTGATCAAACCTCAGGGAT 881

DB 732 SWRYCKCSWYKRYMWWYTWSSWAKTRWKMWRATRMMWYTYYSMCKWYTWTMMGWYWT 791

QY 882 AAACACTCATGATGACACACAAGGCAATGGCTATGAAAGCT 927

DB 792 WRRTYMKRUYMWYKCTKTYWWSATYWTGTTWAAMKTRMKGMT 837

QY 762 ABX14055; Score 42; DB 8; Length 200;

DB 672 SKTYARYGSWYRYYRACMYYRWWYTYRYSYMTYRWTSTRMAMTGMKYSGRWWT 731

QY 822 ATTCTCTCAGACAACCTCAAATTCATGAGCTGAGGCTTCGCTGATCAAACCTCAGGGAT 881

DB 732 SWRYCKCSWYKRYMWWYTWSSWAKTRWKMWRATRMMWYTYYSMCKWYTWTMMGWYWT 791

QY 882 AAACACTCATGATGACACACAAGGCAATGGCTATGAAAGCT 927

DB 792 WRRTYMKRUYMWYKCTKTYWWSATYWTGTTWAAMKTRMKGMT 837

QY 762 ABX14055; Score 42; DB 8; Length 200;

DB 672 SKTYARYGSWYRYYRACMYYRWWYTYRYSYMTYRWTSTRMAMTGMKYSGRWWT 731

QY 822 ATTCTCTCAGACAACCTCAAATTCATGAGCTGAGGCTTCGCTGATCAAACCTCAGGGAT 881

DB 732 SWRYCKCSWYKRYMWWYTWSSWAKTRWKMWRATRMMWYTYYSMCKWYTWTMMGWYWT 791

QY 882 AAACACTCATGATGACACACAAGGCAATGGCTATGAAAGCT 927

DB 792 WRRTYMKRUYMWYKCTKTYWWSATYWTGTTWAAMKTRMKGMT 837

RESULT 3
ABX14055 standard; DNA; 200 BP.
ID ABX14055 /c

RESULT 4
ABX14055 /c

ID	ABL3863	standard; DNA; 7359 BP.	XX	XX	DT 20-FEB-2003 (first entry)
AC	ABL3863;		XX	XX	Mouse poxvirus and zinc finger (POZ) domain gene.
XX	26-MAR-2002 (first entry)		XX	DE	
XX	Human immune system associated gene SEQ ID NO: 1836.		XX		
DB	Human; immune system disease; cytosine methylation; antiasthmatic;		XX		
XX	antiarteriosclerotic; antianæmic; cytostatic; nootropic;		XX		
XX	neuroprotective; anti-HIV; anticonvulsant; ophthalmological;		XX		
XX	antiinflammatory; anticarotid; antidiabetic; antiparoxysmal;		XX		
XX	antiinflammatory; cancer; eye disease; arteriosclerosis; anaemia;		XX		
XX	acute myeloid leukaemia; Alzheimer's disease; AIDS; epilepsy;		XX		
XX	neurofibromatosis; rheumatoid arthritis; psoriasis; bowel disease; gene;		XX		
XX	ds;		XX		
OS	Homo sapiens.		OS	PD 10-OCT-2002.	
XX	W0200200928-A2.		XX	PP 29-MAR-2002; 2002WO-US009714.	
XX	PN 03-JAN-2002.		XX	PR 29-MAR-2001; 2001US-0280372P.	
XX	PF 02-JUL-2001; 2001WO-EP007537.		XX	PR 24-SEP-2001; 2001US-0324590P.	
XX	PR 30-JUN-2000; 2000DE-01032529.		XX	(DELT-) DELTAGEN INC.	
PR	01-SEP-2000; 2000DE-01043826.		XX	PA PI Guenther C;	
XX	(EPIG-) EPIGENOMICS AG.		XX	DR WPI; 2003-067440/06.	
XX	Olek A, Piepenbrock C, Berlin K;		XX	XX New transgenic mouse comprising a disruption in a POZ domain gene, useful	
PI	WPI; 2002-130909/17.		XX	PT PT as a model for disease and for identifying agents that modulate gene	
XX	Nucleic acid comprising fragment of chemically modified gene, useful for		XX	PT expression and function, which are potential agents for treating	
PT	PT diagnosis and treatment of diseases associated with abnormal cytosine		XX	PT schizophrenia.	
PT	methylation.		XX	XX Example 1: Fig 1; 6pp; English.	
PS	SEQ ID NO 1836; 32pp + Sequence Listing; German.		XX	The invention relates to a transgenic mouse comprising a disruption in a	
PS	The present invention provides a number of human immune system associated		CC	novel poxvirus and zinc finger (POZ) domain gene, where there is no	
PS	CC genes which are modified by the methylation of cytosines. The sequences		CC	native expression of the POZ domain gene. The disrupted gene is created	
PS	CC can be used in the diagnosis and treatment of immune system disorders,		CC	CC in 129/OlaHsd mouse embryonic stem cells. The mice are then bred with	
PS	CC including eye diseases such as retinopathy, neovascular glaucoma and		CC	CC 129/OlaHsd female mice to create the F1 generation. The F2 homozygous	
PS	CC macular degeneration, arteriosclerosis, acute myocardial infarction, acute		CC	CC mutants are created by crossbreeding the F1 mice. The phenotype of the	
PS	CC anaemia, cancer, acute myeloid leukaemia, Alzheimer's disease, AIDS, epilepsy, neurofibromatosis,		CC	CC transgenic mouse compared to wild type includes a cognitive abnormality	
PS	CC rheumatoid arthritis, psoriasis and inflammatory/ulcerative bowel		CC	CC shown by a decreased prepulse inhibition (PPI) response to a startle	
PS	CC diseases. The present sequence is a gene of the invention.		CC	CC response test. The transgenic mouse can also show weight-type	
SQ	Sequence 7359 BP; 1715 A; 200 C; 1879 G; 3565 T; 0 U; 0 Other;		CC	CC abnormalities such as decreased body weight, decreased organ-to-body	
SQ	Score 3.7%; DB 6; Length 7359;		CC	CC (e.g. spleen, liver, kidney, thymus and heart), decreased organ-to-body	
SQ	Best Local Similarity 55.0%; Pred. No. 0.28;		CC	CC weight ratios (e.g. spleen, liver, kidney, thymus and heart-to-body	
SQ	Matches 82; Conservative 0; Mismatches 67; Indels 0; Gaps 0;		CC	CC weight ratios). The transgenic mouse is useful as a model for disease and	
Qy	629 AAATTGGATGACAAGATCCAGATTCAAGAACGTACTGCTGAAAGGCACATT 688		CC	CC for identifying agents that modulate gene expression and function, which	
Db	1338 AACTAAATCAACAAATAAAATCAACATAACCAAAAAAATATAATAAT 1279		CC	CC are potential agents for treating schizophrenia. The present sequence	
Qy	689 GAGCGCATACAAAACATTCCGCCAACAGAGCTTAAAGGGACAAAAAGACTGAT 748		CC	CC represents the mouse POZ domain gene.	
Db	1278 AACGAACAAAACATTAACCGTAAAAAAACCAACCAAAAAACAAAATCAC 1219		XX	XX Sequence 463 BP; 145 A; 102 C; 100 G; 116 T; 0 U; 0 Other;	
Qy	749 GAAGCTTGCGCTTGGCGAGAGACAAA 777		Qy	Query Match 3.6%; Score 40.4%; DB 8; Length 463;	
Db	1218 TAATTTCACCATCAAACGAAATTATCACAA 1190		Db	Best Local Similarity 65.6%; Pred. No. 0.2;	
Qy			Matches 59; Conservative 0; Mismatches 31; Indels 0; Gaps 0;		
Db			Qy 177 CATCACCTAGTGGCTTAATTCAGAAATTCAACTCTGGAGCACTAGGGAAATTCTC 236		
Qy			Db 112 CTTCCTACTACCCGAAGTTTCGAGAAATCAACTCTTGTCTCAAGGGCAAACTCTTC 171		
Db			Qy 237 CTGCTGAATGGCTAGGGCTGGAGGGTGTCAA 266		
Db			Db 172 CAGCTCAAGGGCTGGAGGGTGTCAA 201		
RESULT 5	ABQ43613				
ID	ABX14053	standard; DNA; 463 BP.			
XX	ABX14053				
AC	ABQ43613;				

DT 12-JUL-2002 (first entry)
 XX DE Oligonucleotide for detecting cytosine methylation SEQ ID NO 30204.
 XX Human; cytosine methylation; 5'-CpG-3'; uracil; cytosine; diagnosis;
 XX drug; side effect; cancer; central nervous system; cardiovascular;
 XX gastrointestinal; respiratory system; single nucleotide polymorphism;
 XX SNP; cell differentiation; ds.
 XX OS Homo sapiens.
 XX PN WO00218632-A2.
 PD 07-MAR-2002.
 XX PF 01-SEP-2001; 2001WO-EP010074.
 XX PR 01-SEP-2000; 2000DE-01043826.
 XX PR 05-SEP-2000; 2000DE-01044543.
 PA (EPIG-) EPIGENOMICS AG.
 XX PI Olek A, Piepenbrock C, Berlin K, Guetig D;
 XX DR WPI; 2002-371829/40.
 XX PT Determining the degree of cytosine methylation in genomic DNA, useful for
 PT diagnosis and prognosis, comprises selective hybridization of amplicons
 PT from chemically treated DNA.
 PS Claim 12; 56pp + Sequence Listing; 56pp; German.
 XX This invention describes a novel method for determining the degree of
 CC methylation of a particular cytosine in a motif 5'-CpG-3', present in a
 CC genomic sample of DNA. The sample is treated chemically to convert
 CC cytosine (C) but not methylated C, to uracil, then part of the genomic
 CC DNA that contains the target C is amplified to form a labeled amplicon.
 CC The amplicon is hybridised to two classes, each with at least one member
 CC of oligonucleotides and/or peptide-nucleic acid (PNA) oligomers and the
 CC degree of hybridisation to both classes is determined from the label on
 CC the amplicon. From the ratio of labels hybridised to the two classes of
 CC oligomers, the degree of methylation is calculated. The method is used:
 CC (i) for diagnosis and/or prognosis of side effects of therapeutic drugs
 CC and of a wide range of diseases, e.g. cancer, disorders of the central
 CC nervous, cardiovascular, gastrointestinal and respiratory systems etc.,
 CC particularly by detecting mutations or single nucleotide polymorphisms
 CC (SNP's); and (ii) for differentiation of cell or tissue types and for
 CC investigating cell differentiation. The method allows the methylation
 CC status of many C residues to be determined simultaneously. ABQ13410-
 ABQ54121 represent genomic DNA sequences used to illustrate the method
 CC for determining the degree of cytosine methylation described in the
 CC disclosure of the invention.
 XX Sequence 2543 BP; 1529 A; 616 C; 230 G; 168 T; 0 U; 0 Other;
 SQ Query Match 3.5%; Score 40.2; DB 6; Length 2543;
 Best Local Similarity 59.0%; Pred. No. 0.52;
 Matches 69; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
 Qy 629 AAATTGGATGACAAGATCCACATTCAAGAACGCTATACTGGCTAACAGCACATT 688
 Db 28 AAAAAGACCAAAAAACGCCACAAATAATAAAACGCATAAAACGCACAAAAAAA 87
 Qy 689 GACCATACAAACATTCCACCAAGGCTTAAGGCAACAGGCCTAAAGAACGACT 745
 Db 88 AACGCCACGAAACACACCGAAAACACACRCAAAACACACTAAACAAACT 144
 SQ Sequence 2543 BP; 168 A; 230 C; 616 G; 1529 T; 0 U; 0 Other;
 SQ Query Match 3.5%; Score 40.2; DB 6; Length 2543;
 Best Local Similarity 59.0%; Pred. No. 0.52;
 Matches 69; Conservative 0; Mismatches 48; Indels 0; Gaps 0;
 Qy 629 AAATTGGATGACAAGATCCACATTCAAGAACGCTATACTGGCTAACAGCACATT 688
 Db 2516 AAAAAGACCAAAAAACGCCACAAATAATAAAACGCATAAAACGCACAAAAAAA 2457
 Qy 689 GACCATACAAACATTCCACCAAGGCTTAAGGCAACAGGCCTAAAGAACGACT 745
 Db 2456 AACGCCACGAAACACACCGAAAACACACRCAAAACACACTAAACAAACT 2400
 RESULT 8
 ABQ43612/c ABQ43612 standard; DNA; 2543 BP.
 ID ABK31241 Standard; DNA; 9830 BP.
 XX
 AC ABQ43612;

RESULT 9
 AC ABK31241;
 XX DT 23-APR-2002 (first entry)
 XX DE Signal transduction associated gene modified complementary DNA #42.
 XX Human; signal transduction associated gene; cytosine methylation state;
 CG island; signal transduction associated disease; solid tumour; cancer;
 KW antitumour; cytosstatic; mutant; ds.
 KW Homo sapiens.
 OS Synthetic.
 XX PN WO200200926-A2.
 XX PD 03-JAN-2002.
 XX PF 29-JUN-2001; 2001WO-EP007472.
 XX PR 30-JUN-2000; 2000DE-01032529.
 PR 01-SEP-2000; 2000DE-01043826.
 XX PA (EPIG-) EPIGENOMICS AG.
 XX PI Olek A, Piepenbrock C, Berlin K;
 DR WPI; 2002-147896/19.
 XX PT Oligonucleotide for diagnosis and therapy of diseases associated with signal transduction e.g. cancer, comprises chemically modified genomic sequences of genes associated with signal transduction.
 XX PS Claim 1; SEQ ID NO 84; 24pp; English.
 XX The present invention relates to chemically modified DNA sequences of signal transduction associated genes. The DNA sequences are chemically modified using a solution of bisulphite, hydrogen sulphite or disulphite. Also disclosed are oligonucleotides and/or PNA oligomers for detecting the cytosine methylation state (CpG islands) of these genes, and a method for the diagnosis and/or therapy of genetic and epigenetic parameters of genes associated with signal transduction. The genomic DNA can be obtained from cells or cellular components which contain DNA, e.g., cell lines, biopsies, blood, sputum, stool, urine, cerebral-spinal fluid, tissue embedded in paraffin such as tissue from eyes, intestine, kidney, brain, heart, prostate, lung, breast or liver, histologic object slides, and all their possible combinations. The sequences of the invention are useful for the diagnosis and therapy of diseases associated with signal transduction e.g. solid tumours and cancer. ABK31158-ABK31515 represent chemically pretreated genomic DNA sequences of different genes associated with signal transduction, or their complementary sequences. Note: The sequence data for this patient did not form part of the printed specification, but was obtained in electronic format directly from the European Patent Office
 XX Sequence 9830 BP; 2285 A; 267 C; 2773 G; 4505 T; 0 U; 0 Other;
 SQ Query Match 3.5%; Score 39.2; DB 6; Length 9830;
 Best Local Similarity 52.4%; Pred. No. 2;
 Matches 86; Conservative 0; Mismatches 78; Indels 0; Gaps 0;
 Qy 639 ACAAAAGATCCACAAATTCAAAGACAACCGTCATACTGTGAAACAGCACATTGACGCATA 698
 Db 6121 ACACCAAAACGAAAACAAAATATCCCATCGACAAAAAAACCCGACCTTAATA 6062
 Qy 699 AAACATTCGCCAACAGCTAAAGGACAAANGAAGACTGTGAGGCTAGC 758
 Db 6061 ACAAAATCCGGACATCAAACGAAATAATCAAATCAAATAACAAAAAAAT 6002
 Qy 759 CTTTGGCGAGAGACAAAGAGCAGGCCACTGTGACTCTCTT 802
 Db 6001 CTAAAACCTCCCACAAATCACACATTACTCTCT 5958

RESULT 10

Qy 639 ACAAGATCCACAATTCAAAGAACGTCATACTGCTGAAAGCAGCATATGACGGCATACA 698
 Db 6121 ACACCAAAACGAAAACCAAAATATCCACATCGAATAAAAACCCAGTACCTTAATA 6062

Qy 699 AAACATCCACCAACGAGCTAAAGGCAAAGAAAAAGACTGTGAAAGCTCAGC 758
 Db 6061 ACAATCCGAACTCAAAACGAAATAATCAAAATAACAAAAAAAT 6002

Qy 759 CTTTGCGGAGAGACAAAGAGGAGCCACTGTGACTCTCTT 802
 Db 6001 CTAAAACCTCCCCAAACATCACAACTTACTCTCTCT 5958

RESULT 12
 ABV57028 ID ABV57028 Standard; cDNA; 481 BP.
 XX AC ABV57028;
 XX DT 17-SEP-2002 (first entry)
 DE Human prostate expression marker cDNA 57019.
 KW Human; prostate cancer; cyostatic; carcinogen; pharmacodynamic marker;
 KW pharmacogenomic marker; gene; ss.
 XX OS Homo sapiens.
 PN WO200160860-A2.
 XX PD 23-AUG-2001.
 XX PF 20-FEB-2001; 2001WO-US005171.
 XX PR 17-FEB-2000; 2000US-0183319P.
 XX PR 16-MAR-2000; 2000US-0189862P.
 XX PR 25-MAY-2000; 2000US-0207444P.
 XX PR 09-JUN-2000; 2000US-0211314P.
 XX PR 18-JUL-2000; 2000US-0219007P.
 XX PR 13-DEC-2000; 2000US-0255281P.

PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 PT Schlegel R, Endegi WO, Monahan JE;
 XX DR 2001-662795/76.
 PT Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer, useful
 PT for detecting presence of prostate cancer, stage of prostate cancer.
 XX PS Claim 1; Page 10980; 11750pp; English.

CC The invention relates to an isolated nucleic acid molecule (I) comprising
 CC a nucleotide sequence given in Tables I-9 (ABV0010-ABV6213) of the
 CC specification or its complement. (I) is useful for: (a) assessing whether
 CC a patient is afflicted with prostate cancer; (b) monitoring the
 CC progression of prostate cancer in a patient; (c) assessing the efficacy
 CC of a test compound to inhibit prostate cancer in a patient; (d) assessing
 CC the efficacy of a therapy for inhibiting prostate cancer in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a compound; (g)
 CC determining whether prostate cancer has metastasized in a patient; (h)
 CC assessing the aggressiveness or indolence of prostate cancer in a patient
 CC ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker
 XX Sequence 481 BP; 204 A; 82 C; 48 G; 145 T; 0 U; 2 Other;

PS Query Match 3.4%; Score 39; DB 5; Length 481;
 PS Best Local Similarity 49.3%; Pred. No. 0.54%; Indels 0; Gaps 0;
 PS Matches 99; Conservative 0; Mismatches 81; Gaps 1; Gaps 1;

XX Query Match 3.4%; Score 39; DB 12; Length 5284;
 XX Best Local Similarity 54.4%; Pred. No. 1.7%; Indels 1; Gaps 1;
 XX Matches 98; Conservative 0; Mismatches 81; Gaps 1;

XX Sequence 5284 BP; 1397 A; 1242 C; 1236 G; 1377 T; 0 U; 32 Other;

XX RESULT 13
 ADQ24871 ID ADQ24871 standard; DNA; 5284 BP.
 XX AC ADQ24871;
 XX DT 26-AUG-2004 (first entry)
 DE Human soft tissue sarcoma-upregulated DNA - SEQ ID 7691.
 KW soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
 XX soft tissue sarcoma; cytostatic; gene therapy; vaccine; screening; human;
 KW ds.
 XX OS Homo sapiens.
 XX PN WO2004048938-A2.
 XX PR 10-JUN-2004.
 XX PP 26-NOV-2003; 2003WO-US036193.
 XX PR 26-NOV-2002; 2002US-0429739P.
 XX PA (PROT-) PROTEIN DESIGN LABS INC.
 XX PI Aziz N, Ginsburg WM, Zlotnik A;
 XX WPI 2004-441208/41.
 XX Early detection of soft tissue sarcoma comprises determining expression
 PT of a gene in a first soft tissue sample and a normal soft tissue sample
 PT and comparing the gene expression, also useful in treating soft tissue
 sarcoma.
 XX Example 2; SEQ ID NO 7691; 210pp; English.

XX The invention relates to a novel method for detecting soft tissue sarcoma
 CC which comprises obtaining a first soft tissue sample from an individual
 CC and a normal soft tissue sample from the same or different individual,
 CC determining the expression of a gene in both samples and comparing the
 CC expression of the gene in both soft tissue samples, where a higher level
 CC of protein expression in the first soft tissue sample indicates the
 CC presence of soft tissue sarcoma. The method of the invention has
 CC cytostatic applications and may be useful for detecting soft tissue
 CC sarcoma, possibly via gene therapy or vaccine production. The nucleic
 CC acid sequences may be useful in diagnostic and screening applications.
 CC The current sequence is that of a human soft tissue sarcoma-upregulated
 CC DNA of the invention. The current sequence is not shown within the
 CC specification per se but was submitted in CD format by the inventor.
 XX Sequence 5284 BP; 1397 A; 1242 C; 1236 G; 1377 T; 0 U; 32 Other;

XX SQ Query Match 3.4%; Score 39; DB 12; Length 5284;

XX Best Local Similarity 49.3%; Pred. No. 0.54%; Indels 1; Gaps 1;

XX Matches 99; Conservative 0; Mismatches 81; Gaps 1;

Qy	665	GTCATACTGTGAAACACATGGCCATACAACAAATTCCACCAACAGAG-CCTAA	723	Db	565	GTCACACATGGGAAATAATCTAGTGTACAAGAACATCTGCCTAA	624		
Db	5091	GTGACATCTGGCAAAACCTTGCAATTGGTAATAATTTCACAGGAAAAA	5150	Qy	670	ACTGCTGAACAGCACATTGCCATAAAACATTCACAGGCCATAAAAGGA	729		
Qy	724	AAAGGACAAAGAAAGAAGACTGATGAACTCGCCCTTGCGAGACAAAGAGCA	783	Db	625	TCCCTCANCANCACTGACATTGACTTTAAATCAGCCAAANGGAAACACTCTTAANTTC	684		
Db	5151	AAAAAAAGAAAAAAACCTTGTACCTTAATATTGGCATATAATGGAGAGAA	5210	Qy	730	CAAAAGGAAAGAAAGACTGATGAACTCGCCCTTGCGAGACAAAGAGGCCAC	789		
Qy	784	GCCCCACTGTGACTCTTCCTGGGTACATOGATATTCTCAGACAACTTCAA	843	Db	685	TAAAGACAAAGCAATTTAAATCTGCAACCCNCAAAAAATCCAGGCANAA	744		
Db	5211	ATCATCTGATAAGCCTATGAGCCNTGCCATGTTATAAACTGACAACTACAAA	5270	Qy	790	TGAGACTCTCTCTMC	804		
				Db	745	ATGGGTTTTTC	759		
RESULT 14									
ADJ74375									
XX	ID	ADJ74375 standard; cDNA;	982 BP.	RESULT 15					
AC	ID	ADA71938	standard; DNA;	2000	BP.	ADA71938/c			
XX	AC	ADA71938;		XX		ID			
DT	XX			XX		ADA71938;			
DE	XX			XX		ADA71938;			
XX	DE			XX		20-NOV-2003	(first entry)		
KW	XX			XX		DT			
KW	KW			XX		Rice gene,	SEQ ID 5263.		
KW	KW			XX		DB			
antiparasitic; rat.	XX			XX		Plant; bacterial infection; fungal infection; viral infection; rice;			
Rattus sp.	OS			KW		gene; ds.			
XX	OS			XX					
PN	PN			OS		Oryza sativa.			
W02004010925-A2.	PN			XX					
XX	PN			XX					
PD	PD			XX					
05-FEB-2004.	PD			XX					
XX	PD			XX					
PP	PP			XX					
02-MAY-2003; 2003WO-US013743.	PP			XX					
XX	PP			XX					
PR	PR			XX					
02-MAY-2002; 2002US-0377136P.	PR			XX					
XX	PR			XX					
PA (UYVA-) UNIV VANDERBILT.	PA			XX					
XX	PA			XX					
PJ Rubin DH;	PJ			XX					
XX	PJ			XX					
DR WPI; 2004-143721/14.	DR			XX					
XX	DR			XX					
PT Novel gene useful for preparing a composition for reducing or inhibiting	PT			XX					
PT viral infection or for suppressing a malignant phenotype in a cell.	PT			XX					
XX	PT			XX					
PS Claim 1; SEQ ID NO 289; 662pp; English.	PS			XX					
XX	PS			XX					
PT This invention relates to novel mammalian genes involved in viral	PT			XX					
CC infection and tumour suppression. Specifically, it refers to methods for	CC			XX					
CC identifying cellular genes that are required for viral, bacterial or	CC			XX					
CC parasitic growth, as well as genes used for tumour progression, but that	CC			XX					
CC are not essential for cell survival. The present invention describes a	CC			XX					
CC 'gene trap' method and screening/ selection process that can isolate	CC			XX					
CC those polynucleotides that are associated with a specific process of	CC			XX					
CC interest. Furthermore, this method relies on the core discovery that	CC			XX					
CC virally infected cells become dependent on a serum survival factor that	CC			XX					
CC does not affect non-infected cells. Accordingly, identification of these	CC			XX					
CC factors and the appropriate inhibitors thereof, provides a means to treat	CC			XX					
CC and/or prevent viral, bacterial or parasitic growth and infection, as	CC			XX					
CC well as tumour growth. The compositions of this invention exhibit	CC			XX					
CC cytostatic, virucidal, antibacterial and antiparasitic activities. This	CC			XX					
CC polynucleotide is a rat cDNA sequence that is necessary for viral	CC			XX					
CC infection, given in an exemplification of the invention.	CC			XX					
SQ Sequence 982 BP; 324 A; 203 C; 201 G; 205 T; 0 U; 49 Other;	SQ			XX					
Query Match 3.4%; Score 38.8; DB 12; Length 982;	Query			XX					
Best Local Similarity 48.2%; Pred. No. 0.89;	Best Local Similarity			XX					
Matches 94; Conservative 0; Mismatches 101; Indels 0; Gaps 0;	Matches			XX					
Qy 610 GACTTATCATGGACCCATAAATGGATGACAAAGATCCAAAGCACACGTAT 669	Qy			XX					

Qy 374 GAGGCATCTAAAAGCCGAAAAACGTACTGCCAACAAACAGTACAAGTCAAACTCAA 433
 Db 793 WTRWWRCWKGARWNKSRVWKXKXATRYWKWAMTTWWSWRWKSTYRMWSGRMR 734
 Qy 434 GCATTGGAGACGTGCTCCAGAACACCCAAAGGAATTCG - CGGACAAAGACCTAA 491
 Db 733 WSAWRTCSRMCAKTYASSARWTKRARSTRYRWYKRGWTRYRWSCRNTRAR 674
 Qy 492 TCAGACAGGAACATGATTACAAACATGGCCGAANATGGCACAATTGCTCCAAGTGCTCT 551
 Db 673 MSKRKWMAGSNKSCWMMWGRGSRMWSYKSYCSAKCCKTRYMTSSYMTGMYSSYK 614
 Qy 552 CTGCATTCCTTGGAAATGTCAACCCATTGGCATGGAAAGTCACACCTTGGAACATGGCTGA 611
 Db 613 SMSWTSPSYNSKMTCTMWTSMKGSPTRSKNGRSMSRPMWKKRKKWPKWPKW 554
 Qy 612 CTTATCGGACCATTAATGGATCACAAAGATCACCAATTCAAGACAACGTCATAC 671
 Db 553 CTWRRCMCRSYMTTSRSRMMTGYKARYTSKRYMMWYKRYKWCWYYGMMKCS 494
 Qy 672 TSGCTGAACAGACATGGCCATACAAACATTCACACAGCTAAADANGACA 731
 Db 493 Y ---- MMYGYCKACKCCYAMCNKAYSGMMMTWYRKTSKWMRNSTYMWSMYKKCR 439
 Qy 732 AAAAGAAAAAGACTGTAAAGGTCAAGCTTAGCTTGGAGAGACAAAGAAGAGCCACTG 791
 Db 438 SMKYG --- ARCGYC&WTCYGMWYPMGSYKSYRCYKYMWYMMYS 383
 Qy 792 TGACTCTCTCTGCGCGCTGACATGGATTTCTCCAGAACACTCAAAATTCCATGA 851
 Db 382 AYSSMMTWYYYAKWYWKRGTMSWYGSKYKKCITWICMKCMLCYTRWRKMRKT 323
 Qy 852 GTGGAGGCTCTCTGATTCAGCTCAACTCAGCATAAACACTATGACCAACAAAGGAGAT 911
 Db 322 KYSKRCYCWRYATCYNCCYCRGWSRSRSMRTRGKWNRSRMSRCSWYKMKRN 263
 Qy 912 GGGCTATGTAACAGTITTCGAATTCCGGTTAGATACTAGTCTACTCTGTGC 966
 Db 262 KKSYYMSYGWAPSSGTMRSAAKPTYKGSYSRSRAKMRACBMYSSACRVSRTSY 208

Search completed: May 15, 2005, 11:25:14
 Job time : 719.805 sec₈

Result No.	Score	Query Match	Length	DB ID	Description
SUMMARIES					
C 1	43	3.8	1141	4	US-09-806-708B-22 Sequence 22, Appl
C 2	39.4	3.5	2889	4	US-09-24B-796A-5056 Sequence 5056, Appl
C 3	38.6	3.4	12418	4	US-08-232-663-14 Sequence 14, Appl
C 4	37.4	3.3	13428	4	US-09-949-016-15911 Sequence 15911, Appl
C 5	36	3.2	601	4	US-09-949-016-53337 Sequence 53337, Appl
C 6	36	3.2	110403	4	US-09-949-016-17295 Sequence 17295, Appl
C 7	36	3.2	110403	4	US-09-949-016-12741 Sequence 12241, Appl
C 8	36	3.2	139936	4	US-09-949-016-11782 Sequence 11782, Appl
C 9	36	3.2	139952	4	US-09-949-016-13280 Sequence 13280, Appl
C 10	35.8	3.2	1450	4	US-09-620-312D-1058 Sequence 1058, Appl
C 11	35.8	3.2	1862	3	US-09-336-643A-11 Sequence 11, Appl
C 12	35.6	3.1	601	4	US-09-949-016-3338 Sequence 53338, Appl
C 13	34.8	3.1	601	4	US-09-949-016-102602 Sequence 102602,
C 14	34.8	3.1	601	4	US-09-949-016-102714 Sequence 102714,
C 15	34.8	3.1	6755	3	US-08-931-999-4 Sequence 4, Appl
C 16	34.8	3.1	678533	4	US-09-949-016-14577 Sequence 14577, Appl
C 17	34.8	3.1	678533	4	US-09-949-016-14578 Sequence 14578, Appl
C 18	34.6	3.0	320	4	US-09-621-776-2771 Sequence 2771, Appl
C 19	34.6	3.0	326	4	US-09-513-999C-10231 Sequence 10231, Appl
C 20	34.6	3.0	345	4	US-09-513-999C-10233 Sequence 10233, Appl
C 21	34.6	3.0	423	4	US-09-621-776-2768 Sequence 2768, Appl
C 22	34.6	3.0	424	4	US-09-621-976-2767 Sequence 2767, Appl
C 23	34.6	3.0	436	4	US-09-621-976-2766 Sequence 2766, Appl
C 24	34.6	3.0	504	4	US-09-621-976-16332 Sequence 16332, Appl
C 25	34.6	3.0	556	4	US-09-621-976-2769 Sequence 2769, Appl
C 26	34.6	3.0	1278	3	US-09-134-001C-2817 Sequence 2817, Appl
C 27	34.6	3.0	2175	4	US-09-710-279-367 Sequence 967, Appl

Db 151 AAWTNNKTA 143

RESULT 2

US-09-248-796A-5056

Sequence 5056, Application US/09248796A

Patent No. 6747137

GENERAL INFORMATION:

APPLICANT: Keith Weinstock et al

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

FILE REFERENCE: 10196.132

CURRENT APPLICATION NUMBER: US/09/248 796A

CURRENT FILING DATE: 1999-02-12

PRIOR APPLICATION NUMBER: US 60/074,725

PRIOR FILING DATE: 1998-08-13

NUMBER OF SEQ ID NOS: 28208

SEQ ID NO: 5056

LENGTH: 2889

TYPE: DNA

ORGANISM: Candida albicans

US-09-248-796A-5056

Query Match Score 3.5%; Length 2889;

Best Local Similarity 56.6%; Pred. No. 0.15; Matches 73; Conservative 0; Mismatches 56; Indels 0; Gaps 0;

Qy 619 TGGAGCCATTAAATTGGATGACAAGTCCACATTCAAAGACAACGTCAACTGCTGAA 678

Db 1674 TCGAGATTTACGTGGTGAACATCAACCTCCTAACAAAAGAAACCGAC 1733

Qy 679 CAAGGACATTGGCATAAACATTCACCAACAGGCTTAAGGGCAAAAGAA 738

Db 1734 TAAGGACATTGGACACTGAACTAAATCGAGAAACATGCACTGTCAAAGTTAAATAAT 1793

Qy 739 AAAGACTGA 747

Db 1794 CGCAGCTGA 1802

RESULT 3

US-08-232-463-14/c

Sequence 14, Application US/08232463

Patent No. 5670367

GENERAL INFORMATION:

APPLICANT: DORNER, F.

APPLICANT: SCHEFFLINGER, F.

APPLICANT: FALKNER, F. G.

TITLE OF INVENTION: RECOMBINANT FOWLIPOX VIRUS

NUMBER OF SEQUENCES: 52

COUNTRY: USA

ZIP: 22313-0299

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk

COMPUTER: IBM PC compatible

OPERATING SYSTEM: PC-DOS/MS-DOS

SOFTWARE: Patent In Release #1.0, Version #1.25

CURRENT APPLICATION NUMBER: US/08/232,463

FILING DATE:

CLASSIFICATION: 435

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US/07/935,313

FILING DATE:

APPLICATION NUMBER: EP 91 114 300 6

FILING DATE: 26-AUG-1991

RESULT 4

US-09-949-016-15911/c

Sequence 15911, Application US/09949016

Patent No. 6812339

GENERAL INFORMATION:

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

CURRENT FILING DATE: 2000-04-14

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO 15911

TYPE: DNA

; ORGANISM: Human
US-09-949-016-15911

Query Match 3.3%; Score 37.4; DB 4; Length 13489;
Best Local Similarity 52.2%; Pred. No. 1.6; Length 642
Matches 83; Conservative 0; Mismatches 76; Indels 0; Gaps 0;

Qy 583 GGAACTACACCTTGGAAACATGGCTGACTTATGAGCATTAATTGGATGAA 642
Db 11661 GGAACTACACGTCTGGACCAAGAGTTGACTTATGTCCTAAAGCGCTGAAGAA 11602
Qy 643 AGATCCAACTAAAGAACAGCATACTGCTAACAGCAATTGAGCATAAAC 702
Db 11601 AAACCATGATAAAACATCTGTTCTTCTTACACCCACGAAAGCAAA 11542

Query Match 3.2%; Score 36; DB 4; Length 110402;
Best Local Similarity 50.4%; Pred. No. 16;
Matches 114; Conservative 0; Mismatches 110; Indels 2; Gaps 1;

Qy 652 ATTCAAAGACAACCTCATACTGCTGAAAGCACATTGAGCATACAAACATCCACC 711
Db 16399 ATATATATATACACATATACACACACATCATCTCCCTCT 16340

Query Match 3.2%; Score 36; DB 4; Length 110402;
Best Local Similarity 50.4%; Pred. No. 16;
Matches 114; Conservative 0; Mismatches 110; Indels 2; Gaps 1;

Qy 652 ATTCAAAGACAACCTCATACTGCTGAAAGCACATTGAGCATACAAACATCCACC 711
Db 16399 ATATATATATACACATATACACACACATCATCTCCCTCT 16340

Qy 712 AACAGAGCTAAAGGCAAAAGAAAGACTGATGAGGTCTGGCGAGAG 771
Db 16339 AGAGAACCCCTAAATACATACAAATTTCTAACCCAAAGGTGTTAGTGAAGAA 16280

Qy 772 ACAAAAGAGCAGGCCACTGTGACTCTCTTCCTGGGTGACATGGATGATTCTCCAG 831
Db 16279 ATACAGAGGAATGTTAATGCTACTCT--TCCGAGGTGACAAGAACAGAAAGTA 16222

RESULT 7
US-09-949-016-53337

; Sequence 53337, Application US/09949016
; Patent No. 681339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT APPLICATION NUMBER: US/09/949,016
; FILE REFERENCE: CLO01307

CURRENT FILING DATE: 2000-04-14
PRIORITY APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIORITY APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIORITY APPLICATION NUMBER: 60/231,498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 53337

Query Match 3.2%; Score 36; DB 4; Length 601;
Best Local Similarity 54.5%; Pred. No. 0.7;
Matches 72; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

Qy 326 AAAGGCCAACACAAAGGCCAACATGTCACTAAAGAAATCTGCTGAGGCATCAA 385
Db 4 AAGAGTCATAACCCACTAAGGCCAACATTACCCAGGACACAAAGAACCTCCAC 63

Qy 386 AACCTCCAAAAGTACTGCACAAACACTAACAGTACTAACAGCATTGGGAGA 445
Db 64 AAGCAAGGCACIGAAAGTACTGATCAAACTTAAGGACTCACACGAGCAAGGAAA 123

Qy 446 CGTGGTCAGAA 457
Db 124 CATGGTACAAA 135

Query Match 3.2%; Score 36; DB 4; Length 110403;
Best Local Similarity 50.4%; Pred. No. 16;
Matches 114; Conservative 0; Mismatches 110; Indels 2; Gaps 1;

Qy 652 ATTCAAAGACAACCTCATACTGCTGAAAGCACATTGAGCATACAAACATCCACC 711
Db 16406 ATATATATATACACATATACACACACATCATCTCCCTCT 16347

Qy 712 AACAGAGCTAAAGGCAAAAGAAAAAGACTGATGAGTCAGCCTTGGCGAGAG 771
Db 16346 AGGGAAACCCCTAAATCAAATCATACACAAATTTCTAACCCAAAAGTGTGTTAGTGAAGAA 16287

Qy 772 ACAAAAGAGCAGCCCACIGTCATGACTCTCTGGCTGACATGGATGATTCTCCAG 831

RESULT 6
US-09-949-016-17295/c
; Sequence 17295, Application US/09949016
; Patent No 681339

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; CURRENT FILING DATE: 2000-04-14
PRIORITY APPLICATION NUMBER: 60/241,755
PRIOR FILING DATE: 2000-10-20
PRIORITY APPLICATION NUMBER: 60/237,768
PRIOR FILING DATE: 2000-10-03
PRIORITY APPLICATION NUMBER: 60/231,498
NUMBER OF SEQ ID NOS: 207012
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 12741
LENGTH: 110403
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-53337

Query Match 3.2%; Score 36; DB 4; Length 110403;
Best Local Similarity 50.4%; Pred. No. 16;
Matches 114; Conservative 0; Mismatches 110; Indels 2; Gaps 1;

Qy 652 ATTCAAAGACAACCTCATACTGCTGAAAGCACATTGAGCATACAAACATCCACC 711
Db 16406 ATATATATATACACATATACACACACATCATCTCCCTCT 16347

Qy 712 AACAGAGCTAAAGGCAAAAGAAAAAGACTGATGAGTCAGCCTTGGCGAGAG 771
Db 16346 AGGGAAACCCCTAAATCAAATCATACACAAATTTCTAACCCAAAAGTGTGTTAGTGAAGAA 16287

Qy 772 ACAAAAGAGCAGCCCACIGTCATGACTCTCTGGCTGACATGGATGATTCTCCAG 831

RESULT 8
 US-09-949-016-11782/c
 Sequence 11782, Application US/09949016
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CLO01307

CURRENT APPLICATION NUMBER: US/09/949, 016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 11782
 LENGTH: 139936
 TYPE: DNA
 ORGANISM: Human
 FEATURE: misc_feature
 NAME/KEY: misc_feature
 LOCATION: (1)...(139952)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-11782

Query Match 3.2%; Score 36; DB 4; Length 139936;
 Best Local Similarity 54.5%; Pred. No. 18;
 Matches 72; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
 NAME/KEY: misc_feature
 LOCATION: (1)...(139956)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-11782

Query Match 3.2%; Score 36; DB 4; Length 139936;
 Best Local Similarity 54.5%; Pred. No. 18;
 Matches 72; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
 NAME/KEY: misc_feature
 LOCATION: (1)...(139956)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-11782

Query Match 3.2%; Score 36; DB 4; Length 139936;
 Best Local Similarity 54.5%; Pred. No. 18;
 Matches 72; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
 NAME/KEY: misc_feature
 LOCATION: (1)...(139956)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-11782

Query Match 3.2%; Score 36; DB 4; Length 139936;
 Best Local Similarity 54.5%; Pred. No. 18;
 Matches 72; Conservative 0; Mismatches 60; Indels 0; Gaps 0;
 NAME/KEY: misc_feature
 LOCATION: (1)...(139956)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-11782

; SEQ ID NO: 13280
; LENGTH: 139952
; TYPE: DNA
; ORGANISM: Human

; FEATURE: misc_feature
; LOCATION: (1)...(13952)
; OTHER INFORMATION: n = A,T,C or G
US-09-949-016-13280

Query Match 3.2%; Score 36; DB 4; Length 139952;

Best Local Similarity 54.5%; Pred. No. 18;
 Matches 72; Conservative 0; Mismatches 60; Indels 0; Gaps 0;

Qy 326 AAAGGCCAACACAAAGGCCAAACTGTCACTAAAGAAATCTGCTGAGGCATCTAAA 385
 Db 73896 AAGAGTCAATAACCCACTGAACCCACATTACGAGAGAACCTCCAAC 73837

Qy 386 AAGCTCTGCCAAAAAGTACTGCCACAAACAGTACAACGTCACTCAAGCATTTGGGAGA 445
 Db 73836 AAGCAAGGCACTGAAGTGTAACTTAAGCAGCAAGGAAAA 73777

Qy 446 CGTGGTCAGAA 457

Db 73776 CATGGTACAAA 73765

RESULT 10

US-09-620-312D-105B
 Sequence 1058, Application US/09620312D
 Patent No. 6569662

; GENERAL INFORMATION:
 APPLICANT: Tang, Y. Tom
 APPLICANT: Liu, Chenghua
 APPLICANT: Asundi, Vinod
 APPLICANT: Zhang, Jie
 APPLICANT: Ren, Feiyan
 APPLICANT: Chen, Rui-hong
 APPLICANT: Zhao, Qing A.
 APPLICANT: Wehrman, Tom
 APPLICANT: Xue, Aidong J.
 APPLICANT: Yang, Yonghong
 APPLICANT: Wang, Jian-Rui
 APPLICANT: Zhou, Ping
 APPLICANT: Ma, Yunqing
 APPLICANT: Wang, Dunrui
 APPLICANT: Wang, Zhiwei
 APPLICANT: John Tillinghast
 APPLICANT: Drmanac, Radivoje T.

; TITLE OF INVENTION: No. 6569662L Nucleic Acids and
 Polypeptides
 FILE REFERENCE: 784C12B

CURRENT FILING DATE: 2000-07-19
 PRIOR APPLICATION NUMBER: 09/552,317

PRIOR FILING DATE: 2000-04-25
 PRIOR APPLICATION NUMBER: 09/488,725

PRIOR FILING DATE: 2000-01-21
 NUMBER OF SEQ ID NOS: 1105

SOFTWARE: pt_FL_genes Version 1.0
 SEQ ID NO: 1058
 LENGTH: 1450
 TYPE: DNA
 ORGANISM: Homo sapiens

; FEATURE: misc_feature
; NAME/KEY: CDS
; LOCATION: (397)...(1176)
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: (1)...(1450)

; OTHER INFORMATION: n = a,t,c or g

US-09-620-312D-105B
 Sequence 1058, Application US/09620312D
 Patent No. 6569662

US-09-620-312D-105B

SOFTWARE: FastSEQ for Windows Version 4.0

Query Match 3.2%; Score 35.8; DB 4; Length 1450;
 Best Local Similarity 69.0%; Pred. No. 1.4;
 Matches 49; Conservative 0; Mismatches 22; Indels 0; Gaps 0;

SEQ ID NO. 11 Application US/09336643A

GENERAL INFORMATION:
 APPLICANT: Miller, Andrew P.
 CURR FILING DATE: 1998-08-07
 NUMBER OF SEQ ID NOS: 87
 PCT/US99/03826

APPLICANT: Curran, Mark Edward
 CURR FILING DATE: 1999-02-22
 NUMBER OF SEQ ID NOS: 87
 PCT/US99/03826

APPLICANT: Hu, Ping
 CURR FILING DATE: 1999-06-18
 NUMBER OF SEQ ID NOS: 87
 PCT/US99/03826

APPLICANT: Rutter, Marc
 CURR FILING DATE: 1999-01-19
 NUMBER OF SEQ ID NOS: 11
 PCT/US99/03826

TITLE OF INVENTION: Human Potassium Channels

FILE REFERENCE: SEQ ID NO. 6399761

CURRENT APPLICATION NUMBER: US/09/336,643A

PRIOR APPLICATION NUMBER: 60/076,687

PRIOR FILING DATE: 1998-08-07

PRIOR APPLICATION NUMBER: 60/116,448

PRIOR APPLICATION NUMBER: PCT/US99/03826

PRIOR FILING DATE: 1999-02-22

SEQ ID NO. 11

LENGTH: 1862

TYPE: DNA

ORGANISM: H. sapiens

FEATURE: CDS

NAME/KEY: (383) . . . (1157)

LOCATION: K+Nov15

OTHER INFORMATION: US-09-336-643A-11

RESULT 11

Query Match 3.1%; Score 35.6; DB 4; Length 601;
 Best Local Similarity 53.8%; Pred. No. 0.35;
 Matches 71; Conservative 1; Mismatches 60; Indels 0; Gaps 0;

SEQ ID NO. 53338

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 207012

APPLICANT: Miller, Andrew P.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 6812339

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQUENCE: Sequence 102602, Application US/09949016

SEQUENCE: Sequence 93338, Application US/09949016

SEQUENCE: Sequence 102714, Application US/09949016

SEQUENCE: Sequence 6812339

SEQUENCE: Sequence 102714, Application US/09949016

SEQUENCE: Sequence 6812339

RESULT 12

Query Match 3.1%; Score 34.8; DB 4; Length 601;
 Best Local Similarity 53.7%; Pred. No. 1.7;
 Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

SEQ ID NO. 53338

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 207012

APPLICANT: Miller, Andrew P.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 6812339

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQUENCE: Sequence 102602

SEQUENCE: Sequence 93338

SEQUENCE: Sequence 102714

SEQUENCE: Sequence 6812339

SEQUENCE: Sequence 102714

SEQUENCE: Sequence 6812339

RESULT 13

Query Match 3.1%; Score 34.8; DB 4; Length 601;
 Best Local Similarity 53.7%; Pred. No. 1.7;
 Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

SEQ ID NO. 53338

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 207012

APPLICANT: Miller, Andrew P.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 6812339

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQUENCE: Sequence 102602

SEQUENCE: Sequence 93338

SEQUENCE: Sequence 102714

SEQUENCE: Sequence 6812339

SEQUENCE: Sequence 102714

SEQUENCE: Sequence 6812339

RESULT 14

Query Match 3.1%; Score 34.8; DB 4; Length 601;
 Best Local Similarity 53.7%; Pred. No. 1.7;
 Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;

SEQ ID NO. 53338

GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 207012

APPLICANT: Miller, Andrew P.
 CURR FILING DATE: 2000-04-14
 NUMBER OF SEQ ID NOS: 6812339

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

FILE REFERENCE: CL001307

CURRENT APPLICATION NUMBER: US/09/949,016

PRIOR APPLICATION NUMBER: 60/241,755

PRIOR FILING DATE: 2000-10-20

PRIOR APPLICATION NUMBER: 60/237,768

PRIOR FILING DATE: 2000-10-03

PRIOR APPLICATION NUMBER: 60/231,498

PRIOR FILING DATE: 2000-09-08

NUMBER OF SEQ ID NOS: 207012

SOFTWARE: FastSEQ for Windows Version 4.0

SEQUENCE: Sequence 102602

SEQUENCE: Sequence 93338

SEQUENCE: Sequence 102714

SEQUENCE: Sequence 6812339

SEQUENCE: Sequence 102714

SEQUENCE: Sequence 6812339

```

; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 102714
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-102714

Query Match Similarity 3.1%; Score 34.8; DB 4; Length 601;
Best Local Similarity 53.7%; Prod. No. 1.7;
Matches 72; Conservative 0; Mismatches 62; Indels 0; Gaps 0;
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Match 71.3 ACAGAGCCTAAAGGACAAAAAGAACAGACTGTGAAGCTGAGCTTGCCTTGAGAGA 772
Db 21.3 AAAATAACAAAGGAGCAAAAGAAAAAGAATAAAATAGAATGACGGCATGCTACTAGA 272
Match 77.3 CAAAGAGCAGCC 786
Db 27.3 TATAGAAGACAGC 286

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RESULT 15
US-08-931-999-4
Sequence 4, Application US/08931999
Patent No. 6043219

GENERAL INFORMATION:

APPLICANT: Iandolo, John J.
APPLICANT: Crupper, Scott S.
TITLE OF INVENTION: Broad Spectrum Chemotherapeutic Peptide

NUMBER OF SEQUENCES: 4

CORRESPONDENCE ADDRESS:

ADDRESSEE: Hovey, Williams, Timmons & Collins
STREET: 2405 Grand Boulevard, Suite 400
CITY: Kansas City
STATE: Missouri
COUNTRY: U.S.A.
ZIP: 64108

COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.30

CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/08/931,999
FILING DATE:
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/710,561
FILING DATE: 19-SEP-1996
ATTORNEY/AGENT INFORMATION:
NAME: Collins, John M.
REGISTRATION NUMBER: 26,252
REFERENCE/DOCKET NUMBER: 25-043-A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 816/474-9050
TELEFAX: 816/474-9057

GenCore version 5.1.6
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OM nucleic - nucleic search, using SW model

Run on: May 15, 2005, 12:53:36 ; Search time 838.5 Seconds
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Title: US-10-764-075-1

Perfect score: 1136

Sequence: 1 agccatgtatggttgcaa.....tgaataatgcctaggaaagc 1136

Scoring table: IDENTITY_NUC

Gapext 1.0

Searched: 5662132 seqs, 3060109652 residues

Total number of hits satisfying chosen parameters: 113246664

Post-processing Minimum Match 0%
 Maximum Match 100%
 Listing First 45 summaries

Database : Published Applications NA:*

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RESULT 1
 US-10-764-075-1

1 Sequence 1, Application US/10764075-1
 1 Publication No. US20040265796A1
 1 GENERAL INFORMATION:
 1 ; APPLICANT: Briese, Thomas
 1 ; APPLICANT: Lipkin, Ian W.
 1 ; APPLICANT: Palacios, Gustavo
 1 ; APPLICANT: Jabado, Omar
 1 ; TITLE OF INVENTION: Methods and Kits for Detecting SARS-Associated Coronavirus
 1 ; FILE REFERENCE: 5199-87
 1 CURRENT FILING DATE: 2004-01-23
 1 PRIORITY APPLICATION NUMBER: US/10/764-075
 1 PRIORITY FILING DATE: 2003-04-17
 1 NUMBER OF SEQ ID NOS: 16
 1 SOFTWARE: PatentIn version 3.2
 1 SEQ ID NO 1
 1 LENGTH: 1136
 1 TYPE: DNA
 1 ORGANISM: artificial sequence
 1 FEATURE:
 1 ; OTHER INFORMATION: synthetic nucleic acid sequence that includes the 3' non-coding region of the SARS-associated coronavirus genome and a portion of the N gene of the SARS-associated coronavirus genome
 1 ; OTHER INFORMATION: region of the SARS-associated coronavirus genome
 1 ; OTHER INFORMATION: the N gene of the SARS-associated coronavirus genome

US-10-764-075-1

Query Match Score 1136; DB 18; Length 1136;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1136; Conservative 0; Missmatches 0; Gaps 0;

SUMMARIES

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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3	1136	100.0	24774	19	US-10-889-447-3	
4	1136	100.0	28920	19	US-10-889-447-5	
5	1136	100.0	28920	19	US-10-889-447-6	
6	1136	100.0	29727	18	US-10-839-729-15	
7	1136	100.0	29727	18	US-10-827-577-1	
8	1136	100.0	29727	19	US-10-889-447-8	
9	1136	100.0	29727	19	US-10-699-936-1	
10	1136	100.0	29736	18	US-10-839-729-17	
11	1136	100.0	29736	19	US-10-889-447-9	
12	1136	100.0	29736	19	US-10-889-447-10	
13	1136	100.0	29742	18	US-10-839-729-16	
14	1136	100.0	29742	19	US-10-808-187-15	
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C	26	1136	100.0	29751	19	US-10-889-447-2
C	27	1136	100.0	29751	19	US-10-699-936-2
C	28	1134.4	99.9	29430	19	US-10-889-447-7
C	29	1131.2	99.6	2304	19	US-10-699-936-7
C	30	1131.2	99.6	2304	19	US-10-699-936-11
C	31	1124	98.9	29291	19	US-10-889-447-4
C	32	41.8	3.7	7359	15	US-10-311-455-1836
C	33	40.2	3.5	2543	18	US-10-363-35A-30203
C	34	40.2	3.5	2543	19	US-10-363-345A-30204
C	35	40.2	3.5	2543	19	US-10-313-48A-30204
C	36	40.2	3.5	2543	19	US-10-363-48A-30204
C	37	39.2	3.5	2543	19	US-10-221-611-112
C	38	39	3.4	481	18	US-10-337-930-57047
C	39	39	3.4	5284	18	US-10-723-60-791
C	40	38.8	3.4	852	18	US-10-435-11-1938
C	41	38.2	3.4	2544	18	US-10-437-963-74109
C	42	38.2	3.4	6888	18	US-10-60-494-252
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ALIGNMENTS

RESULT 2
US-10-699-936-16
; Sequence 16, Application US/10699936
; Publication No. US20050095502A1
; GENERAL INFORMATION:
; APPLICANT: Gillian-Ross, Laura
; APPLICANT: Taylor, Jill
; APPLICANT: Scholl, David R.
; APPLICANT: Wentworth, David E.
; INVENTION: Composition and Methods for Detecting Severe Acute Respiratory Syndrome Coronavirus
; TITLE OF INVENTION: Syndrome Coronavirus
; FILE REFERENCE: DHI-07986
; CURRENT APPLICATION NUMBER: US/10/699,936
; CURRENT FILING DATE: 2003-11-03
; NUMBER OF SEQ ID NOS: 87
; SOFTWARE: Patentin version 3.2
SEQ ID NO 16
LENGTH: 1620
TYPE: DNA
ORGANISM: SARS-CoV 2J-HZ01
US-10-699-936-16

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Db	541 TCCAGTGCCTCTGATTCTGGAAATGTCAGCATGGCTGAACTTCCTGGGG	600		
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Qy	1089-447-3			Qy	661	CAAGTCATACTGTGAAACAGGCATTCATGGGAAAGACTGTCATGCTGAACTTCACCAAAAGGCC	720
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Db	23679	CCGCAATCTTAATACAACTGCTGCAACCTGCTGAACTTCTCCAGAACACATGCC	23738	; Sequence 5, Application US/10889447			
Qy	121 AAAGGGTCTTACCGAGGGAACTGGGGAACTGGGGTCAAGCTCTCTC	180	; Publication No. US20050075307A1				
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Qy	121 AAAGGGTCTTACCGAGGGAACTGGGGTCAAGCTCTCTC	180	; APPLICANT: Bennett, C. Frank				
Db	23739	AAAGGGTCTTACCGAGGGAACTGGGGTCAAGCTCTCTC	23798	; APPLICANT: Jain, Ravi			
Qy	121 AAAGGGTCTTACCGAGGGAACTGGGGTCAAGCTCTCTC	180	; TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION				

FILE REFERENCE: RTS-0685US
 CURRENT APPLICATION NUMBER: US/10/889,447
 CURRENT FILING DATE: 2004-07-12
 PRIOR APPLICATION NUMBER: 60/486,670
 PRIORITY FILING DATE: 2003-07-12
 NUMBER OF SEQ ID NOS: 241
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 5
 LENGTH: 28920
 TYPE: DNA
 ORGANISM: SARS coronavirus isolate BJ03
 FEATURE: misc_feature
 NAME/KEY: misc_feature
 LOCATION:
 OTHER INFORMATION: n is any nucleotide
 US-10-889-447-5

Query Match 100.0%; Score 1136; DB 19; Length 28920;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1136; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy 61 CGCGAATCTTAATAAACATGGTGCACCTGCCACGGAAACACATTGCC 120
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 Db 27888 AAAGGCTTCTACGCAGGGAGCACAGGGCGCAGTOAAGCCTCTTCGCTCTCATC 27947

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 Db 28008 TCGAATGGCTAGCGAGGTGGTCAAATGCCCCTCGGCCATAGTGTCTAGACAGATGAA 28067

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Qy 421 CAACGTCACTCAAGCAATTGGGAGACCTGTCAGAACAACCAAGAAATTTCGGGA 480
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 Db 28308 TCCAAGTGCCTCTGCAATTGGTAATGCACTGGCATTGCAACCTCTGG 28367

Qy 601 AACATGGCTGACTTACATGGAGCAATTGATGACAAGATCCAAAGA 660
 Db 28368 AACATGGCTGACTTACATGGAGCAATTGATGACAAGATCCAAAGA 28427

Qy 661 CAAAGTCATACTGCTGACAAAGCACATTGACCCATACAGGCCAACAGGCC 720
 Db 28428 CAAAGTCATACTGCTGACAAAGCACATTGACCCATACAGGCCAACAGGCC 28487

Qy 721 TAAAAAGCACAAAAGAAAGACTGTAGTAAGCTTCAGGCTTTCGGCTATATGCTGTAGACAGATGAA 780
 Db 28488 TAAAAAGCACAAAAGAAAGACTGTAGTAAGCTTCAGGCTTTCGGCTATATGCTGTAGACAGATGAA 28547

Qy 781 GCAGCCCCACTGTGACCTCTCTCCGGCTGACATGGTGAATTCTCCAGAACACTTCA 840
 Db 28548 GCAGGCCACTGTGACCTCTCTCCGGCTGACATGGTGAATTCTCCAGAACACTTCA 28607

Qy 841 AAATTCCATGAGTGGAGCTCTGCTGATCACTCAGGCTAAACTCATGATGACCC 900
 Db 28608 AAATTCCATGAGTGGAGCTCTGCTGATCACTCAGGCTAAACTCATGATGACCC 28667

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 Db 28668 ACAAGGCGATGGGCTATGTAACCTTTCGCAATTCCGGTTACGATACATGCTACTC 28727

Qy 961 TTGTGCGAAATGAAATTCTGTAACCTAACCCAGTAGTTGAGTTAACCTTAACTTC 1020
 Db 28728 TTGTGCGAAATGAAATTCTGTAACCTAACCCAGTAGTTGAGTTAACCTTAACTTC 28787

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 Db 28788 ACATGAAATCTTAACTCAATGTAACCTAGGAGACTTGAAGAGGCCACCATTT 28847

Qy 1081 TCATCGAGGCCACCGCGACTACGATCGAGCTAACATGGGACTTGAAGAGGCCACCATTT 1136
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RESULT 5
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 ; Sequence 6, Application US/10889447
 ; Publication No. US20050075307A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Bennett, C. Frank
 ; ATTORNEY: Jain, Ravi
 ; TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION
 ; FILE REFERENCE: RTS-0685US
 ; CURRENT APPLICATION NUMBER: US/10/889,447
 ; CURRENT FILING DATE: 2004-07-12
 ; PRIOR APPLICATION NUMBER: 60/486,670
 ; PRIOR FILING DATE: 2003-07-12
 ; NUMBER OF SEQ ID NOS: 241
 ; SEQ ID NO: 6
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; LENGTH: 28920
 ; TYPE: DNA
 ; ORGANISM: SARS coronavirus isolate BJ04
 ; FEATURE:
 ; NAME/KEY: misc_feature
 ; LOCATION:
 ; OTHER INFORMATION: n is any nucleotide
 US-10-889-447-6

Query Match 100.0%; Score 1136; DB 19; Length 28920;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1136; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 AGGCATCTTATGGTGGACTTCAATGCTGAAACTTCTGGCTGAACTTCTGGC 60
 Db 27768 AGGCATCTTATGGTGGACTTCAATGCTGAAACTTCTGGCTGAACTTCTGGC 27827

Qy 61 CGCGAATCTTAATAAACATGGTGCACCTGCCACGGAAACACATTGCC 120
 Db 27882 CCCGAATCTTAATAAACATGGTGCACACTCTCAGGAAACACATTGCC 27887

Qy 121 AAAGGCTTCTACGCAGGGAGCACAGGGCGCAGTOAAGCCTCTTCGCTCTCATC 180
 Db 27888 AAAGGCTTCTACGCAGGGAGCACAGGGCGCAGTOAAGCCTCTTCGCTCTCATC 27947

Qy 181 ACCTAGTGCGTAATTCAAGAATTCACTCTGGAAATTCTCGGC 240
 Db 27948 ACCTAGTGCGTAATTCAAGAATTCACTCTGGAAATTCTCGGC 28007

Qy 241 TCGAATGGCTAGCGAGGTGGTCAAATGCCCCTCGGCCATAGTGTCTAGACAGATGAA 300
 Db 28008 TCGAATGGCTAGCGAGGTGGTCAAATGCCCCTCGGCCATAGTGTCTAGACAGATGAA 28067

Qy 301 CCAGCTTGAGGAAAACTTCTCGTAAAGGCCAACACAAACAGGCCAACCTGTCATAA 360
 Db 28068 CCAGCTTGAGGAAAACTTCTCGTAAAGGCCAACACAAACAGGCCAACCTGTCATAA 28127

Qy 361 GAATCTCTGCTGGGATCTAAACCTCCAAAGTACTCCACAAACGTA 420
 Db 28128 GAATCTCTGCTGGGATCTAAACCTCCAAAGTACTCCACAAACGTA 28187

Qy 421 CAACGTCACTCAAGCAATTGGGAGACCTGTCAGAACAACCAAGAAATTTCGGGA 480
 Db 28188 CAAGTCACTCAAGCAATTGGGAGACGGTCAAGAACAACTGGGA 28247

Qy 481 CCAAGACCTTAATGACAGAACAGGAACTGATTACAAACATGGCCAAATTGCAATTGCA 540
 Db 28248 CCAAGACCTTAATGACAGAACAGGAACTGATTACAAACATGGCCAAATTGCAATTGCA 28307

Qy 541 TCCAAGTGCCTCTGCAATTGGTAATGCACTGGCATTGCAACCTCTGG 600
 Db 28308 TCCAAGTGCCTCTGCAATTGGTAATGCACTGGCATTGCAACCTCTGG 28367

Qy 601 AACATGGCTGACTTACATGGAGCAATTGATGACAAGATCCAAAGA 660
 Db 28368 AACATGGCTGACTTACATGGAGCAATTGATGACAAGATCCAAAGA 28427

Qy 661 CAAAGTCATACTGCTGACAAAGCACATTGACCCATACAGGCCAACAGGCC 720
 Db 28428 CAAAGTCATACTGCTGACAAAGCACATTGACCCATACAGGCCAACAGGCC 28487

Qy 721 TAAAAAGCACAAAAGAAAGACTGTAGTAAGCTTCAGGCTTTCGGCTATATGCTGTAGACAGATGAA 780
 Db 28488 TAAAAAGCACAAAAGAAAGACTGTAGTAAGCTTCAGGCTTTCGGCTATATGCTGTAGACAGATGAA 28547

Db 28008 TCCAATGGCTTAGGGAGCTGCTGAAACTGCCCCTCGGCCTATATGCTGTAGACAGATGAA 300
 Db 28048 TCCAATGGCTTAGGGAGCTGCTGAAACTGCCCCTCGGCCTATATGCTGTAGACAGATGAA 28607

Qy	301	CCAGCTTGTAGAGCAAAAGTTCTGGTAAGGCCAACACAAGCCAACTGTCACAA	360	; SEQ ID NO 15
Db	28068	CCAGCTTGTAGAGCAAAAGTTCTGGTAAGGCCAACACAAGCCAAACTGTCACAA	28127	; LENGTH: 29727
Qy	361	GAAATCTGTGTGATCTAAAAGCTCGCCAALAACTGTAATGCCRCAAACAGTA	420	; TYPE: DNA
Db	28128	GAATCTGTGTGATCTAAAAGCTCGCCAALAACTGTAATGCCRCAAACAGTA	28187	; ORGANISM: SARS Coronavirus
Qy	421	CAACCTCACTCAAGCATTTGGAGACGTCGTCAGGAAATTGGCGCA 480	Qy	1 AGGATCGTATGGTTGCACCTGGGACCCCTTAATAACCCPAAAGACCAATGGCAC 60
Db	28188	CAACCTCACTCAAGCATTTGGAGACGTCGTCAGGAAATTGGCGCA 28247	Db	28506 AGGCATCGTATGGTTGCACCTGGGACCCCTTAATAACCCPAAAGACCAATGGCAC 28565
Qy	481	CCAGACCTAATCAGACAAAGGAACATGATACAAACATTTGGCCAAAATNGCACAAATTGCG 540	Qy	61 CGGAATCTTAATAAACATGTCGACCCCTGPTAACAACTCCCTGAAGGAAACATGGCC 120
Db	28248	CCAGACCTAATCAGACAAAGGAACATGATACAAACATTTGGCCAAAATNGCACAAATTGCG 28307	Db	28566 CCGAATCTTAATAAACATGTCGACCCCTGPTAACAACTCCCTGAAGGAAACATGGCC 28625
Qy	541	TCCAGTGGCTCTGATCTTGGAAATGTCAGGATGGCATGAAGTCAACCTTCGG 610	Qy	121 AAAGGCTCTACCCAGGGAACAGGGGGAGCTGAGCCCTTCCTGCCTCATC 180
Db	28308	TCCAGTGGCTCTGATCTTGGAAATGTCAGGATGGCATGAAGTCAACCTTCGG 28367	Db	28626 AAAGGCTCTACCCAGGGAACAGGGGGAGCTGAGCCCTTCCTGCCTCATC 28885
Qy	601	AACATGGCTGACTTATGAGCCATTAAATTGGATGACAAAGATCCAACTCAAGA 660	Qy	181 ACGTAGTCGGTAAATTCAAGAAATTCAACTCTGGCAGCAGTAGGGAAATTCTCCCTGC 240
Db	28368	AACATGGCTGACTTATGAGCCATTAAATTGGATGACAAAGATCCAACTCAAGA 28427	Db	28686 ACGTAGTCGGTAAATTCAAGAAATTCTCCCTGGCAGCAGTAGGGAAATTCTCCCTGC 28745
Qy	661	CAACGTCATACTGCTGAAGAACATTCACAAACATTTGGCATACAAACAGGCC 720	Qy	241 TCGATGGTAGGGAGGTGGTGAAGACTGCCCCTGGCTATTGGTGTAGACAGATTGAA 300
Db	28428	CAACGTCATACTGCTGAAGAACATTCACAAACATTTGGCATACAAACAGGCC 28487	Db	28746 TCGATGGTAGGGAGGTGGTGAAGACTGCCCCTGGCTATTGGTGTAGACAGATTGAA 28805
Qy	721	TAAGAGCAAAAGAAAAAGACTGATGAGCTGAAGGTCAGGTTGGCGAGAGAAA 780	Qy	301 CCACCTTGAGGAAAGTTCTGGTAAGGCCAACAAACAGGCCAAACTGTCACTAA 360
Db	28488	TAAGAGCAAAAGAAAAAGCTGATGAGCTGAAGGTCAGGTTGGCGAGAGCAAAAGAA 28547	Db	28806 CCACCTTGAGGAAAGTTCTGGTAAGGCCAACAAACAGGCCAAACTGTCACTAA 28865
Qy	781	GCAGGCCACTGTGACTCTCTGGCTGATGGTATTCTGGCTCAAGCAACTCA 840	Qy	361 GAAATCTGTGCTGGCATCTAAAGGCCAACAAACGTPACTGCCCCAACAGTA 420
Db	28548	GCAGGCCACTGTGACTCTCTGGCTGATGGTATTCTGGCTCAAGCAACTCA 28607	Db	28866 GAAATCTGTGCTGGCATCTAAAGGCCAACAAACGTPACTGCCCCAACAGTA 28925
Qy	841	AAATTCCATGAGTGGCTCTGCTGATTTCTGGCTCAAGCAACTCA 900	Qy	421 CAACGTCACTCAAGCATTTGGAGAGCTGGTCAAGAACAAACCCAGAAATTGGGCA 480
Db	28608	AAATTCCATGAGTGGCTCTGCTGATTTCTGGCTCAAGCAACTCA 28667	Db	28926 CAACGTCACTCAAGCATTTGGAGAGCTGGTCAAGAACAAACCCAGAAATTGGGCA 28985
Qy	901	ACAGGGCAGATGGCTATTTAAAGGTTTCGCAATTCCCTTACGATCATAGCTACTC 960	Qy	481 CCAGACCTAATGCAAGGAACTGATTACAAACATGGCCCAAAATTGCACAAATTGTC 540
Db	28668	ACAGGGCAGATGGCTATTTAAAGGTTTCGCAATTCCCTTACGATCATAGCTACTC 28727	Db	28986 CCAGACCTAATGCAAGGAACTGATTACAAACATGGCCCAAAATTGCACAAATTGTC 29045
Qy	961	TTCGGAGATGTAATTCTGTAACTAAAGCAAGGAGCTTGTAACTTAACTTC 1020	Qy	541 TCCAGAGTCGCTCTGCATCTGGAACTCACCCCTTCGG 600
Db	28728	TTGGAGATGTAATTCTGTAACTAAAGCAAGGAGCTTGTAACTTAACTTC 28787	Db	29046 TCCAGAGTCGCTCTGCATCTGGAACTCACCCCTTCGG 29105
Qy	1021	ACATGCACTTAAATGTTGTAACATTAGGGAGACTTGAAGAGCCACCAATT 1080	Qy	601 AACATGGTGCATCTATCATGGCCATTAATGGATGACAAAGTCAACATTAAAGA 650
Db	28788	ACATGCACTTAAATGTTGTAACATTAGGGAGACTTGAAGAGCCACCAATT 28847	Db	29106 AACATGGTGCATCTATCATGGCCATTAATGGATGACAAAGTCAACATTAAAGA 29165
Qy	1081	TCATCGAGGCCACCGGAGACTACATGTCAGGGTACAGTGAATATGCTGGAGAGC 1136	Qy	661 CAACGTCATACTGTGCAAGGCAATTGACCAACAGAGCC 720
Db	28848	TCATCGAGGCCACCGGAGACTACATGTCAGGGTACAGTGAATATGCTGGAGAGC 28903	Db	29166 CAACGTCATACTGTGCAAGGCAATTGACCAACAGAGCC 29225
Qy	1141	TCATCGAGGCCACCGGAGACTACATGTCAGGGTACAGTGAATATGCTGGAGAGC 29225	Qy	721 TAAAAGGCAAAAGAAAAAGCTGAGGAAAGCTGAGGAAAGCAAAAGA 780
Db	29226	TAAAAGGCAAAAGAAAAAGCTGAGGAAAGCTGAGGAAAGCAAAAGA 29285	Db	29286 GCAGGCCACTGTGACTCTCTCCCTGGCTGACATGGATGATTCTCCAGAACACTCA 29345
Qy	1201	AAATCCATGAGTGGTGAATTCTGGCTGATTCGATGATGTTCAACTCGCCATAAACCTCATGTCAC 900	Qy	781 GCAGGCCACTGTGACTCTCTCCCTGGCTGACATGGATGATTCTCCAGAACACTCA 29400
Db	29346	AAATCCATGAGTGGTGAATTCTGGCTGATTCGATGATGTTCAACTCGCCATAAACCTCATGTCAC 29405	Db	29406 ACAGGCCAGATGGCTATGTAACGTTTCGGAAATTCCGGTTAGATACTGCTACT 29465

RESULT 6
US-10-764-075-1
US-1-839-729-15
; sequence 15, Application US/10839729
; Publication No. US20050002953A1
; GENERAL INFORMATION:
; APPLICANT: Jens Herold
; TITLE OF INVENTION: SARS-CORONAVIRUS VIRUS-LIKE PARTICLES
; TITLE OF INVENTION: AND METHODS OF USE
; FILE REFERENCE: BIOBANK_013A
; CURRENT APPLICATION NUMBER: US/10/839,729
; CURRENT FILING DATE: 2004-05-04
; PRIOR APPLICATION NUMBER: 60/468703
; PRIOR FILING DATE: 2003-05-06
; NUMBER OF SEQ ID NOS: 49
; SOFTWARE: FastSEQ for Windows Version 4.0

Qy	961	TTCGTGCAAGATGAATTCTCGTAAC TAAACAGGACA ACTAGGGTTAGTTAAC TTACTTC 1020	Db	28986	CCAAGACCTAATCGACAAGAACCTGATTCAAACATTGGCGCAAAATTGACAAATTGC 29045
Db	29466	TTCGTGCAAGATGAATTCTCGTAAC TAAACAGGACA ACTAGGGTTAGTTAAC TTACTTC 29525	Qy	541	TCCAAGTGCCTCTGCACTCTTGGAATGTCGCCATTGGCATGGAACTGCAACCTTCGGG 600
Qy	1021	ACATAGCCTATCTTAATCAATGTTAACATTAGGGAGACTGAAAGGCCAACACATT 1080	Db	29046	TCCAAGTGCCTCTGCACTCTTGGAATGTCGCCATTGGCATGGAACTGCAACCTTCGGG 29105
Db	29536	ACATAGCCTATCTTAATCAATGTTAACATTAGGGAGACTGAAAGGCCAACACATT 29585	Qy	601	AACATGGCTGACTTATCATGGCACTTAAATTGGATGACAAGATCCAAATTCAAGA 660
Qy	1081	TCAATCGAGGCCAACGGGTTAGATCGATCGGGTACAGTGATAATGTGAGAGC 1136	Db	29106	AACATGGCTGACTTATCATGGCACTTAAATTGGATGACAAGATCCAAATTCAAGA 29155
Db	29586	TCAATCGAGGCCAACGGGTTAGATCGATCGGGTACAGTGATAATGTGAGAGC 29641	Qy	661	CAACGCTCATACTGCTAACAGCACATTGCCAACAGAGC 720
			Db	29166	CAACGCTCATACTGCTAACAGCACATTGCCAACAGAGC 29225
RESULT 7					
US-10-827-757-1					
; Sequence 1, Application US/10827757					
; Publication No. US20050004071A1					
; GENERAL INFORMATION					
; APPLICANT: Comper, Wayne					
; TITLE OF INVENTION: Charged Polysaccharides Resistant To Lysosomal Degradation During					
; TITLE OF INVENTION: Kidney Filtration And Renal Passage And Their Use To Treat Or					
; TITLE OF INVENTION: Prevent Infection By Coronaviruses					
; FILE REFERENCE: 11213-007-999					
; CURRENT APPLICATION NUMBER: US/10/827,757					
; CURRENT FILING DATE: 2004-04-20					
; PRIOR APPLICATION NUMBER: 60/464,294					
; PRIOR FILING DATE: 2003-04-21					
; NUMBER OF SEQ ID NOS: 1					
; SOFTWARE: PatentIn version 3.2					
; SEQ ID NO 1					
; TYPE: DNA					
; ORGANISM: SARS-related coronavirus (Urbani strain)					
US-10-827-757-1					
Query Match 100.0%; Score 1136; DB 18; Length 29727;					
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;					
Matches 1136; Conservative 0; Gaps 0;					
Qy	1	AGCCATCCATCGGTGGAACTCGAGGGAGCCGCTGTGAATAACCCAAAGAACCATTTGGCAC 60	Qy	901	ACAGGCCAGATGGCTATGTAACCTGGTTACGATACTAGTGTACTCT 960
Db	28506	AGCCATCCATCGGTGGAACTCGAGGGAGCCGCTGTGAATAACCCAAAGAACCATTTGGCAC 28565	Db	29406	ACAGGCCAGATGGCTATGTAACCTGGTTACGATACTAGTGTACTCT 29465
; RESULT 8					
US-10-889-447-8					
; Sequence 8, Application US/10889447					
; Publication No. US20050075307A1					
; GENERAL INFORMATION					
; APPLICANT: Bennett, C. Frank					
; ATTORNEY/AGENT: Jain, Ravi					
; TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION					
; FILE REFERENCE: RTIS-06850US					
; CURRENT APPLICATION NUMBER: US/10/889,447					
; CURRENT FILING DATE: 2004-07-12					
; PRIORITY NUMBER: 60/485,670					
; PRIORITY FILING DATE: 2003-07-12					
; NUMBER OF SEQ ID NOS: 241					
; SOFTWARE: FastSEQ for Windows Version 4.0					
; SEQ ID NO 8					
; LENGTH: 29727					
; TYPE: DNA					
; ORGANISM: SARS coronavirus Urbani					
; US-10-889-447-8					
Qy	361	GAATCTCTGCTGAGGATCTAAACGCTTGGCAAAACTACTGCCAACAGCTA 420	Qy	1	AGGCATGCTATGGCTGGGAGCTGGCTGCAACTGGCTGGCTGAACTGCCAACAGCTAATTGGC 60
Db	28866	GAATCTCTGCTGAGGATCTAAACGCTTGGCAAAACTACTGCCAACAGCTA 28925	Db	28506	AGGCATGCTATGGCTGGGAGCTGGCTGCAACTGCCAACAGCTAATTGGC 28565
Qy	301	CCAGCTTGAGGAAACTTCGGTAAAGGCCAACAGGCCAACAGCTGCACTAA 360	Qy	481	CCAGGACTTAATCGAGAACAGAGGAACTGATCACAAACATGGCGAACAAATTGCGCA 540
Db	28806	CCAGCTTGAGGAAACTTCGGTAAAGGCCAACAGGCCAACAGCTGCACTAA 28865	Qy		

Qy	61	CCGGATCTTAATACATGTCGCCACCGTGTACAACTTCTCAGGAAACACTTGCC	120
Db	28566	CCGGATCTTAATACATGTCGCCACCGTGTACAACTTCTCAGGAAACACTTGCC	28625
Qy	121	AAAAGCTCTACCGAAGGGAGCAAGGGGAGCAAGGGGAGCAAGGGGAGCAAGGG	180
Db	28626	AAAAGCTCTACCGAAGGGAGCAAGGGGAGCAAGGGGAGCAAGGGGAGCAAGGG	28685
Qy	181	ACCTAGTCGGGTTAATTCAAGAAATTCAACTCTGGGACAGTACGGGAAATTCTCTGC	240
Db	28686	ACCTAGTCGGGTTAATTCAAGAAATTCAACTCTGGGACAGTACGGGAAATTCTCTGC	28745
Qy	241	TCCGAACTGCTACGGAGCTGGTAAACTGCTCCCGCTATGGCTAGAGATGAA	300
Db	28746	TCCGAACTGCTACGGAGCTGGTAAACTGCTCCCGCTATGGCTAGAGATGAA	28805
Qy	301	CCGGCTTAGAGAAAGTTCTGTAAAGGCCAACACAAGGCCAACTGTCACTAA	360
Db	28806	CCGGCTTAGAGAAAGTTCTGTAAAGGCCAACACAAGGCCAACTGTCACTAA	28865
Qy	361	GAAATCTCTGGTGGGGATCTAAAGCTGGCTGGCTAAACAGTCACTGCCAACAGTA	420
Db	28866	GAAATCTCTGGTGGGGATCTAAAGCTGGCTGGCTAAACAGTCACTGCCAACAGTA	28925
Qy	421	CAACGCTCACTCAAGCAAGGAACTGATTACAAACATGGCCAAACCCAGGAAATT	480
Db	28926	CAACGCTCACTCAAGCAAGGAACTGATTACAAACATGGCCAAACCCAGGAAATT	28985
Qy	481	CCAGACCTTAATCAGAACAGGAACTGATTACAAACATGGCCAAATTCACATTTC	540
Db	28986	CCAGACCTTAATCAGAACAGGAACTGATTACAAACATGGCCAAATTCACATTTC	29045
Qy	541	TCCAAAGTCCCTCTGATTCATCTGGATGTCAGCATTGGCATGGAAATGCAACCTTG	600
Db	29046	TCCAAAGTCCCTCTGATTCATCTGGATGTCAGCATTGGCATGGAAATGCAACCTTG	29105
Qy	601	AACATGGCTGACTTTATGAGGCCATTAAATTGGTGTCAAAGAATTCACAAAGA	660
Db	29106	AACATGGCTGACTTTATGAGGCCATTAAATTGGTGTCAAAGAATTCACAAAGA	29165
Qy	661	CAACGTCATACTGCTGACACAGCACATTGAGCAATCCACATTGGCTGACATGG	720
Db	29166	CAACGTCATACTGCTGACACAGCACATTGAGCAATCCACATTGGCTGACATGG	29225
Qy	721	TAAAAGGACAAAAAGAAAAAGACTGATGAGACTGATGAGCTGGCCAGAGAACAGA	780
Db	29226	TAAAAGGACAAAAAGAAAAAGACTGATGAGCTGGCCAGAGAACAGAACAGAAC	29285
Qy	781	GCAGCCCACTGTGACTCTCTCCTGGGTGACATGGATGATTCTCAGACAACTTC	840
Db	29286	GCAGCCCACTGTGACTCTCTCCTGGGTGACATGGATGATTCTCAGACAACTTC	29345
Qy	841	AAATTCCATGATGTTGAGCTTCTGCTGATTCACTCGGCTAAACACTCTGATGAC	900
Db	29346	AAATTCCATGATGTTGAGCTTCTGCTGATTCACTCGGCTAAACACTCTGATGAC	29405
Qy	901	ACAGGGAGATGGCTATGTAACAGTTTCGGAAATTCTGGTTACGATAGTCACTC	960
Db	29406	ACAGGGAGATGGCTATGTAACAGTCACTGGTTACGATAGTCACTC	29465
Qy	961	TTGTGCGAAATGAAATTCTGTAACACTTAACTGTAACATTGAGGGACTGAAAGG	1020
Db	29446	TTGTGCGAAATGAAATTCTGTAACACTTAACTGTAACATTGAGGGACTGAAAGG	29525
Qy	1021	ACATAGGCAATCTTTAATCAATGTAACATGGGACTGAAAGGCAACCAATT	1080
Db	29526	ACATAGGCAATCTTTAATCAATGTAACATGGGACTGAAAGGCAACCAATT	29585
Qy	1081	TGATCGAGGCCACGGGAGTAAGTCACTGGGACTGAAATACTGGAGAC	1136
Db	29586	TGATCGAGGCCACGGGAGTAAGTCACTGGGACTGAAATACTGGAGAC	29641

RESULT	9
US-10-699-936-1	
: Sequence 1, Application US/10699936	
: Publication No. US20050095382A1	
: GENERAL INFORMATION:	
: APPLICANT: Gilliland-Ross, Laura	
: APPLICANT: Taylor, Jill	
: APPLICANT: Schouli, David R.	
: APPLICANT: Wentworth, David E.	
: APPLICANT: Jollick, Joseph D.	
: TITLE OF INVENTION: Compositions and Methods for Detecting Severe Acute Respiratory Syndrome Coronavirus	
: FILE REFERENCE: DHI -07986	
: CURRENT APPLICATION NUMBER: US/10/699, 936	
: CURRENT FILING DATE: 2003-11-03	
: NUMBER OF SEQ ID NOS: 7	
: SOFTWARE: Patentin version 3.2	
: SEQ ID NO: 1	
: LENGTH: 29727	
: TYPE: DNA	
: ORGANISM: SARS coronavirus Urbani	
US-10-699-936-1	
Query Match	100.0% ; Score 1136; DB 19; Length 29727;
Best Local Similarity	100.0% ; Pred. No. 0;
Matches 1136; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
Qy 1 AGGCATCGTGTGGTCACTGAGGGAGCTGTGATAACCCANAGACCACATTGGCAC 60	
Db 28506 AGGCATCGTGTGGTCACTGAGGGAGCTGTGATAACCCANAGACCACATTGGCAC 28565	
Qy 61 CGCAATCTTAATAACAATTCTGCCACCGTGCTAGAACCTTCCTCAAGGAACAATTTGCC 120	
Db 28566 CGCAATCTTAATAACAATTCTGCCACCGTGCTAGAACCTTCCTCAAGGAACAATTTGCC 28625	
Qy 121 AAAGGCTCTACCGAGGGAAAGCAGGGCAGTCAGCCCTCTCGGCTCCATC 180	
Db 28626 AAAGGCTCTACCGAGGGAAAGCAGGGCAGTCAGCCCTCTCGGCTCCATC 28685	
Qy 181 ACGTAGTGGGTAAATTCAAAATTCAACTCTCTGGAGAGTAGGGAAATTTCTCTGC 240	
Db 28686 ACGTAGTGGGTAAATTCAAAATTCAACTCTCTGGAGAGTAGGGAAATTTCTCTGC 28745	
Qy 241 TCGATGGCTAGCGAGGGTGTGAAACTTGCCGCTATTGGCTGCTAGACAGATTGAA 300	
Db 28746 TCGATGGCTAGCGAGGGTGTGAAACTTGCCGCTATTGGCTGCTAGACAGATTGAA 28805	
Qy 301 CCAGCTTGAGGCAAGGTTCTGATAAAGCCACACACACACAGCTGCACTAA 360	
Db 28806 CCAGCTTGAGGCAAGGTTCTGTTAAAGCCACACACACACAGCTGCACTAA 28865	
Qy 361 GAAATCTGCTGCTAGGGCATCTAAAGCTCTGCCCCAAACACAGTACTGCCACACAGTA 420	
Db 28866 GAAATCTGCTGCTAGGGCATCTAAAGCTCTGCCCCAAACACAGTACTGCCACACAGTA 28925	
Qy 421 CAACGCTCACTCAAGGATTGGAGAGCTGCTGAGCTGCTAGGAAACCCAGGGAAATTTCGGGG 480	
Db 28926 CAACGCTCACTCAAGGATTGGAGCTGCTGAGCTGCTAGGAAACCCAGGGAAATTTCGGGG 28985	
Qy 481 CCAGACCTTAATCTGATTCTTGGATGTCAGGATGGATGAAAGTCAACCTTGGGG 540	
Db 28986 CCAGACCTTAATCTGATTCTTGGATGTCAGGATGGATGAAAGTCAACCTTGGGG 29045	
Qy 541 TCGAAGTGCCTCTGATTCTTGGATGTCAGGATGGATGAAAGTCAACCTTGGGG 600	
Db 29046 TCGAAGTGCCTCTGATTCTTGGATGTCAGGATGGATGAAAGTCAACCTTGGGG 29105	
Qy 601 AACATGGCTGACTTATCATGGAGGCCATTAAAATTGGATGACAAGAAGTCCACAATTCAAAGA 660	
Db 29106 AACATGGCTGACTTATCATGGAGGCCATTAAAATTGGATGACAAGAAGTCCACAATTCAAAGA 29165	
Qy 661 CAAGCTCATACTGTGAATGCTGATTCAGGATACAAAAATGTCACAGACATTCAGAGCC 7200	

Db	29166	CAACGTGATACTGTGACAGCACATGGTACAGAACATTCACAAAGGCC	29225	
Qy	721	TAAAGGGACAAAGAAAGAAGACTATGAACTCGAGCTTGCCCGAGAACAAAAGAA	780	
Db	29226	TAAAGGGACAAAGAAAGAAGACTATGAACTCGAGCTTGCCCGAGAACAAAAGAA	29285	
Qy	781	CGAGCCCCACTGTGACTCTCTCCCTGGGTGACATGGTATTTCTCCAGACAACCTCA	840	
Db	29286	CGAGCCCCACTGTGACTCTCTCCCTGGGTGACATGGTATTTCTCCAGACAACCTCA	29345	
Qy	841	AATTCCATGAGTGGGGCTTCGCTGATTCAACTCAGTGTGACCC	900	
Db	29346	AATTCCATGAGTGGGGCTTCGCTGATTCAACTCAGTGTGACCC	29405	
Qy	901	ACAAGGGAGATGGGTATGAAACGTTTCGAAATTCGGTTACGATCATAGTCTACT	960	
Db	29406	ACAAGGGAGATGGGTATGAAACGTTTCGAAATTCGGTTACGATCATAGTCTACT	29465	
Qy	961	TGTGCGAGAAATGAAATTCTGTAACAAACAGCAAGTAGGTTAGTTAACTTAAATCTC	1020	
Db	29466	TGTGCGAGAAATGAAATTCTGTAACAAACAGCAAGTAGGTTAGTTAACTTAAATCTC	29525	
Qy	1021	ACATAGCAATCTTAACTCAATGTGAACTCATGGGGGACTGTGAAAGGCCAACATTT	1080	
Db	29526	ACATAGCAATCTTAACTCAATGTGAACTCATGGGGGACTGTGAAAGGCCAACATTT	29585	
Qy	1081	TCATCGAGGCACGGGAGTACGGTACAGTGAATGTGAAATGTGAGGAGC	1136	
Db	29586	TCATCGAGGCACGGGAGTACGGTACAGTGAATGTGAAATGTGAGGAGC	29641	
RESULT 10				
US-10-839-729-17				
; Sequence 17, Application US/10839729				
; Publication No. US20050002953A1				
; GENERAL INFORMATION:				
; APPLICANT: Jens Herold				
; TITLE OF INVENTION: SARS-CORONAVIRUS VIRUS-LIKE PARTICLES				
; TITLE OF INVENTION: AND METHODS OF USE				
; FILE REFERENCE: BIOBANK_013A				
; CURRENT APPLICATION NUMBER: US/10/839,729				
; CURRENT FILING DATE: 2004-05-04				
; PRIOR APPLICATION NUMBER: 60/468703				
; PRIOR FILING DATE: 2003-05-06				
; NUMBER OF SEQ ID NOS: 49				
; SOFTWARE: Fast SEQ for Windows Version 4.0				
; SEQ ID NO 17				
; LENGTH: 29736				
; TYPE: DNA				
; ORGANISM: SARS Coronavirus				
US-10-839-729-17				
Qy		Query Match Score 1136; DB 18; Length 29736;		
		Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;		
Qy		1 AGGCATGTGATGGTTGCAACTGGGGAGCCTGTGAATACCCAAAGGCCACATGGCAC 60		
Db	28491	AGGCATGTGATGGTTGCAACTGGGGAGCCTGTGAATACCCAAAGGCCACATGGCAC 28550		
Qy	61	CCGCAATCTTAATACATGTGCCACCTGTGCTACACTTCTCAAGGAATACTTGCC 120		RESULT 11
Db	28551	CCGCAATCTTAATACATGTGCCACCTGTGCTACACTTCTCAAGGAATACTTGCC 28610		US-10-889-447-9
Qy	121	AAAAGGCTTCTACGGCAGGGAGCAGGGGGCACTGCAAGCTCTCTCCATC 180		; Sequence 9, Application US/10889447
Db	28611	AAAAGGCTTCTACGGCAGGGAGCAGGGGGCACTGCAAGCTCTCTCCATC 28670		; Publication No. US20050002950A1
Qy	181	ACGTAGTGGGTAATCAAGAAATTCAACTCTGGAGCACTAGGGGAATTCTCTGC 240		; GENERAL INFORMATION:
Db	28671	ACGTAGTGGGTAATCAAGAAATTCAACTCTGGAGCACTAGGGGAATTCTCTGC 28730		; APPLICANT: Bennett, C.; Frank
Qy		Query Match Score 1081; DB 18; Length 29736;		; TITLE OF INVENTION: MODULATION OF AMINOPEPTIDASE N EXPRESSION
Db		Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;		; FILE REFERENCE: PHS-0685US
Qy		1 AGGCATGTGATGGTTGCAACTGGGGAGCCTGTGAATACCCAAAGGCCACATGGCAC 60		; CURRENT APPLICATION NUMBER: US/10/889,447
Db		AGGCATGTGATGGTTGCAACTGGGGAGCCTGTGAATACCCAAAGGCCACATGGCAC 29626		; CURRENT FILING DATE: 2004-07-12
Qy		Query Match Score 1081; DB 18; Length 29736;		; PRIORITY APPLICATION NUMBER: 60/4486,670
Db		Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;		; PRIORITY FILING DATE: 2003-07-12
Qy		1 AGGTAGTGGGTAATCAAGAAATTCAACTCTGGAGCACTAGGGGAATTCTCTGC 240		; PRIORITY FILING DATE: 2003-07-12
Db		AGGTAGTGGGTAATCAAGAAATTCAACTCTGGAGCACTAGGGGAATTCTCTGC 300		

Db	28911	CAACGTCRACTCAAGCATTGGAGACCTGGTCCAGACAAACCCAGGAATTTCGGGA	28970	
Qy	481	CCAGGACTTAATCAGAAGGACTGATACAGACATTGGCGCAANITGCACAAATTGC	540	
Db	28911	CCAGGACTTAATCAGAAGGACTGATACAGACATTGGCGCAANITGCACAAATTGC	29030	
Qy	541	TCCAAGTGCCCTCTGCAUTGTGCACTTGTGGAAATGTCAGCAAGGACTGATTA	600	
Db	29031	TCCAAGTGCCCTCTGCAUTGTGCACTTGTGGAAATGTCAGCAAGGACTGATTA	29090	
Qy	601	AACATGGCTGACTTATCTGGAGCATTAAATTGGATGACAAGGATCCACAAATTCA	660	
Db	29091	AACATGGCTGACTTATCTGGAGCATTAAATTGGATGACAAGGATCCACAAATTCA	29150	
Qy	661	CAACGTCRACTGCTGACANGCACATTGACCCATACAAACNTTCCACCCACAGCC	720	
Db	29151	CAACGTCRACTGCTGACANGCACATTGACCCATACAAACNTTCCACCCACAGCC	29210	
Qy	721	AAAAAGGACAAAAGAAAAGACTGATGAAGCTCAGCTTTGGCGOAGAGAACAAA	780	
Db	29211	AAAAAGGACAAAAGAAAAGACTGATGAAGCTCAGCTTTGGCGOAGAGAACAAA	29270	
Qy	781	GCAGCCCCACTGTGACTCTCTCGGGCTGACATGGATGATTCTCAGACAACCTCA	840	
Db	29271	GCAGCCCCACTGTGACTCTCTCGGGCTGACATGGATGATTCTCAGACAACCTCA	29330	
Qy	841	AAATTCCAACTGACTGGACCTTCTGCTGATTCACACTCATGATGCCAC	900	
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Db	29391	ACAGGGGATGGCTATGTAACGTTTTCGAATTGGTTACGATAATAGTCTACTC	29450	
Qy	961	TTCGACAAATGAAATTCTCGTAACTAACAGGAAACTAGGTTTAACTTAACTTC	1020	
Db	29451	TTCGACAAATGAAATTCTCGTAACTAACAGGAAACTAGGTTTAACTTAACTTC	29510	
Qy	1021	ACATAGGCAATCTTAAATCAATGTTAACATTAGGGAGACTGTAAATGCTGAG	1080	
Db	29551	ACATAGGCAATCTTAAATCAATGTTAACATTAGGGAGACTGTAAATGCTGAG	29570	
Qy	1081	TCTCGAGGCCAGCGGAGTAGATCCTGGTAACGTGAAATGCTGAGAGC	1136	
Db	29571	TCTCGAGGCCAGCGGAGTAGATCCTGGTAACGTGAAATGCTGAGAGC	29626	
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US-10-839-729-16				
; Sequence 16 , Application No./US/10839729				
; Publication No./US/0050002951A1				
; GENERAL INFORMATION				
; APPLICANT: Jans Heijold				
; TITLE OF INVENTION: SARS-CORONAVIRUS VIRUS-LIKE PARTICLES				
; TITLE OF INVENTION, AND METHODS OF USE				
; CURRENT APPLICATION NUMBER: US/10/839,729				
; CURRENT FILING DATE: 2004-05-04				
; PRIORITY APPLICATION NUMBER: 60/468703				
; PRIORITY FILING DATE: 2003-05-06				
; NUMBER OF SEQ ID NOS: 49				
; SOFTWARE: FastSEQ for Windows Version 4.0				
; SEQ ID NO: 16				
; LENGTH: 29742				
; TYPE: DNA				
; ORGANISM: SARS Coronavirus				
US-10-839-729-16				
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Best Local Similarity	100.0%	Pred. No. 0;	Indels 0;	Gaps 0;
Matches 1136;	Conservative	0;	Mismatches	0;
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Qy	1081	TCATCGAGGCCAGCGGAGTAGATCCTGGTAACGTGAAATGCTGAGAGC	1136	
1 AGGCATCGTATGGTGGCAACTGAGGGAGCCCTGTAATAACCCAAAGACCACATGGCAC	60			

RESULT 14
 US-10-8-187-15
 Sequence 15, Application US/10808187
 Publication No. US2005009009A1
GENERAL INFORMATION:
 APPLICANT: PEIRIS, JOSEPH S. M.
 APPLICANT: YUEN, KWOK YUNG
 APPLICANT: POON, LIT MAN
 APPLICANT: GUAN, YI
 APPLICANT: CHAN, KWOK HUNG
 APPLICANT: NICHOLLS, JOHN
 TITLE OF INVENTION: A DIAGNOSTIC ASSAY FOR THE HUMAN VIRUS CAUSING SEVERE
 TITLE OF INVENTION: RESPIRATORY SYNDROME (SARS)
 FILE REFERENCE: V9661_00178
 CURRENT APPLICATION NUMBER: US/10/808,187
 CURRENT FILING DATE: 2004-03-24
 PRIORITY NUMBER: 60/457,031
 PRIOR FILING DATE: 2003-03-24
 PRIORITY NUMBER: 60/457,730
 PRIOR FILING DATE: 2003-03-26
 PRIORITY NUMBER: 60/459,931
 PRIOR FILING DATE: 2003-04-02
 PRIORITY NUMBER: 60/460,357
 PRIOR FILING DATE: 2003-04-03
 PRIORITY NUMBER: 60/461,265
 PRIOR FILING DATE: 2003-04-08
 PRIORITY NUMBER: 60/462,805
 PRIOR FILING DATE: 2003-04-14
 PRIORITY NUMBER: 60/468,139
 PRIOR FILING DATE: 2003-05-05
 PRIORITY NUMBER: 60/464,886
 PRIOR FILING DATE: 2003-04-23
 PRIORITY NUMBER: 60/471,200
 PRIOR FILING DATE: 2003-05-16
 NUMBER OF SEQ ID NOS: 2476
 SOFTWARE: PatentIn ver. 3.2
 SEQ ID NO 15
 LENGTH: 29742
 TYPE: DNA
 ORGANISM: Human severe acute respiratory system virus
 US-10-808-187-15

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	Best Local Similarity	100.0%	Pred. No.	0;
	Matches	0;	Mismatches	0;
	1136;	Conservative	Indels	0;
			Gaps	
Qy	1	AGGATCGTATGGTCAACTGGGAGGCCCTGAATAACCCAAAGACCACATTGGCAC	60	
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Qy	61	CCGACATCCTATAACATGGTCCACGCCACCTGGTCAACTTCTCAAGAACACATGCC	12	
Db	28566	CCGCAATCCTATAACATGGTCCACGCCACCTGGTCAACTTCTCAAGAACACATGCC	28	
Qy	121	AAAAGGTTCTACCGAGGGAGCAAGAGGGCAGTCGAAGGAACTTCCTGCCTCATC	18	
Db	28626	AAAAGGTTCTACCGAGGGAGCAAGAGGGCAGTCGAAGGAACTTCCTGCCTCATC	28	
Qy	181	ACGTAGTCGGTAAATCAAGAAATTCAACTCTGGCAAGTAGGGAAATTCTCTGC	24	
Db	28686	ACGTAGTCGGTAAATCAAGAAATTCAACTCTGGCAAGTAGGGAAATTCTCTGC	28	
Qy	241	TGGATGGTAGAGCAAACCTTCTGTAAGGAAACTCTGTCAGTGAATGTTGAA	30	
Db	28746	TGGATGGTAGGGGGTGGTCAAATCTGCCCTGGCTATCTGTCAGTGAATGTTGAA	28	
Qy	301	CCAGTTGAGACCAAACCTTCTGTAAGGCAACACAACAGGCCAAACTCTGCACTAA	36	
Db	28806	CCAGTTGAGACCAAAGTTCTGTAAGGCAACACAACAGGCCAAACTCTGCACTAA	28	

PRIOR APPLICATION NUMBER: 60/459,931	Qy	661	CAACGGTCATACTGCTGAACAGCACATTGACGCCATTCCACCAACAGAGCC 720
PRIOR FILING DATE: 2003-04-02	Db	29166	CAACGGTCATACTGCTGAACAGCACATTGACGCCATTCCACCAACAGAGCC 29225
PRIOR APPLICATION NUMBER: 60/460,357	Qy	721	TAAAAGGACAAAGAAAAAGACTGTAGAAGGTGAGCTTGCGCAGAACAGAA 780
PRIOR FILING DATE: 2003-04-13	Db	29226	TAAAAGGACAAAGAAAAAGACTGTAGAAGGTGAGCTTGCGCAGAACAGAA 29285
PRIOR APPLICATION NUMBER: 60/461,265	Qy	781	GCAGGCCACGTGACATCTTCTCCGGCTGACATGGATGATGAGAACACTTC 840
PRIOR FILING DATE: 2003-04-08	Db	29286	GCAGGCCACGTGACATCTTCTCCGGCTGACATGGATGATGAGAACACTTC 29345
PRIOR APPLICATION NUMBER: 60/462,805	Qy	841	AAATTCATGAGTGGAGCTCTGCTGATTAACACTCATGATGACCC 900
PRIOR FILING DATE: 2003-04-14	Db	29346	AAATTCATGAGTGGAGCTCTGCTGATTAACACTCATGATGACCC 29405
PRIOR APPLICATION NUMBER: 60/468,139	Qy	901	ACAAGGAGATGGCTATGTAACGTTTCCCAATTCCGCTCTGCGATTGAC 960
PRIOR FILING DATE: 2003-05-15	Db	29406	ACAAGGAGATGGCTATGTAACGTTTCCCAATTCCGCTCTGCGATTGAC 29465
PRIOR APPLICATION NUMBER: 60/464,886	Qy	961	TTGTGCGAGAATGAAATTCTCTCTAACTGTTAAGTTAACCTTTAATCTC 1020
PRIOR FILING DATE: 2003-04-23	Db	29466	TTGTGCGAGAATGAAATTCTCTCTAACTGTTAAGTTAACCTTTAATCTC 29525
PRIOR APPLICATION NUMBER: 60/471,200	Qy	1021	ACATAGCAATTTTAACTCAATGTTAATCTGTTAACCTAGGAGACTGAAGGCCACATT 1080
PRIOR FILING DATE: 2003-05-16	Db	29526	ACATAGCAATTTTAACTCAATGTTAACCTAGGAGACTGAAGGCCACATT 29585
SOFTWARE: Patentin ver. 3.2	Qy	1081	TCATCGAGGCCACGGGAGTAGATCGAGGTACAGTGAATAATGTTAGGGAGGC 1136
SEQ ID NO: 16	Db	29586	TCATCGAGGCCACGGGAGTAGATCGAGGTACAGTGAATAATGTTAGGGAGGC 29641
LENGTH: 29742			
TYPE: DNA			
ORGANISM: Human severe acute respiratory system virus			
FEATURE:			
NAME/KEY: CDS			
i.LOCATION: (1)..(29742)			
us-10-808-187-16			
Query Match Score 100.0%; Score 1136; DB 19; Length 29742;			
Best Local Similarity 100.0%; Pred. No. 0; Mismatches 0; Indels 0; Gaps 0;			
Matches 1136; Conservative 0; Gaps 0;			
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Db 28506 AGGCATCTTATCGTTCGAACTGAGGGAGCCTGTAATAACCCAAGAACCCACATTGGCAC 28565			
Qy 61 CGGCAAATCTTAATACATGCTGCCACGGTGTACACTTCTCAAGAACACATTGCC 120			
Db 28566 CGGCAAATCTTAACTACATGCTGCCACGGTGTACACTTCTCAAGAACACATTGCC 28625			
Qy 121 AAAAGGCTTCTACGAGGGAGGAGCAAGGGCAGTCCTTCGCTCTTCATC 180			
Db 28626 AAAAGGCTTCTACGAGGGAGGAGCAAGGGCAGTCCTTCGCTCTTCATC 28685			
Qy 181 ACCTAGTGGCTTAATCAGAAATTCAACTCTGGCAACGATAGGGAAATTTCCTGC 240			
Db 28636 ACCTAGTGGCTTAATCAGAAATTCAACTCTGGCAACGAAACTCTGC 28745			
Qy 241 TCCAATGCTTGGGGAGTGGGAAACTGCCCTGCTGCTGAGATGAA 300			
Db 28746 TCCAATGCTTGGGGAGTGGGAAACTGCCCTGCTGCTGAGATGAA 28805			
Qy 301 CCAGCTTGGAGGAAAGTTCTGGTAAGGGCAACAAACAGGCAAACCTGCTAA 360			
Db 28806 CCAGCTTGGAGGAAAGTTCTGGTAAGGGCAACAAACAGGCAAACCTGCTAA 28865			
Qy 361 GAAATCTCTGCTGCTGAGGATCTAAAAAGCTCGCCAAAAACGTAACAAACGTA 420			
Db 28866 GAAATCTCTGCTGCTGAGGATCTAAAAACCTCGCCAAAAACGTAACAAACGTA 28925			
Qy 421 CCAAGTCCTCGATCTGAGCTGGAAACTGCCCTGCTGCTGAGATGAAATTGGCA 480			
Db 28926 CCAAGTCCTCGATCTGAGCTGGAAACTGCCCTGCTGCTGAGATGAAATTGGCA 28985			
Qy 481 CCAAGACCTTACGAGAACACTGATTAACAAACGTTGGCAAATTGCAAAATTGCA 540			
Db 28986 CCAAGACCTTACGAGAACACTGATTAACAAACGTTGGCAAATTGCAAAATTGCA 29045			
Qy 541 TCCAAGTGGCTCTGCTGATCTGGCAACTGCCCTGCTGCTGAGATGAAACTCACACCTGG 600			
Db 29046 TCCAAGTGGCTCTGCTGATCTGGCAACTGCCCTGCTGCTGAGATGAAACTCACACCTGG 29105			
Qy 601 AACATGGGTGACTTATCGGGCCATTAAATTGGAGAACAGATCCACAAATTCAAGA 660			
Db 29106 AACATGGGTGACTTATCGGGCCATTAAATTGGAGAACAGATCCACAAATTCAAGA 29165			

Run on:	May 15, 2005, 11:03:36 ; Search time 5001.54 Seconds (without alignments)				
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Perfect score:	1136				
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Title:	US-10-764-075-1				
Minimum DB seq length:	0				
Maximum DB seq length:	2000000000				
Post-processing:	Minimum Match 0% Maximum Match 100% Listing first 45 summaries				
Database :	EST: 1: gb_est1: 2: gb_est2: 3: gb_htc: 4: gb_est3: 5: gb_est4: 6: gb_est5: 7: gb_est6: 8: gb_gss1: 9: gb_gss2: *				
Searched:	34239544 seqs, 19032134700 residues				
Total number of hits satisfying chosen parameters:	68479088				
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.					
SUMMARIES					
Result No.	Score	Query Match	Length	DB ID	Description
C 1	43.2	3.8	769	6 CB669132	CB669132 OSJNBe01G H55033 HH550b Sog9
C 2	43	3.8	323	7 H55033	H55033 HH550b Sog9
C 3	42.8	3.8	640	4 BJ328127	BJ328127 BJ328127
C 4	42.4	3.7	1101	9 CNS00LOO	AL068607 Drosophil
C 5	42.2	3.7	434	4 BJ350542	Bj350542 BJ350542
C 6	42.2	3.7	518	2 BJ598760	BJ598760 BY21d10 Y
C 7	42.2	3.7	540	4 BJ362480	BJ362480 BJ362480
C 8	42.2	3.7	556	4 BJ366773	BJ366773 BJ366773
C 9	42.2	3.7	593	4 BJ328471	BJ328471 BJ328471
C 10	42.2	3.7	601	4 BJ319144	BJ319144 BJ319144
C 11	42.2	3.7	605	4 BJ365525	BJ365525 BJ365525
C 12	42.2	3.7	606	4 BJ339537	BJ339537 BJ339537
C 13	42.2	3.7	616	4 BJ367757	BJ367757 BJ367757
C 14	42.2	3.7	617	4 BJ366277	BJ366277 BJ366277
C 15	42.2	3.7	629	4 BJ370135	BJ370135 BJ370135
C 16	42.2	3.7	656	4 BJ361324	BJ361324 BJ361324
C 17	42	3.7	532	5 BX512459	BX512459 BX512459
C 18	42	3.7	583	2 BJ33936	BJ33936 BJ33936
C 19	42	3.7	612	2 BB623030	BB623030 BB623030
C 20	42	3.7	772	5 EU558830	EU558830 EU558830
C 21	42	3.7	780	9 AV400589	Mus muscu
C 22	42	3.7	1002	6 BY708644	BY708644 BY708644
C 23	42	3.7	1411	3 AK008741	Mus muscu
C 24	42	3.7	1532	3 AK017592	Mus muscu

Query Match	Score 3.8%;	Score 43.2;	DB 6;	Length 769;		Qy	687 TTGACGCCATACAAAACATTCCACCAAGCCTAAAGGACAAAAAGAAAAAGACTG 746
Best Local Similarity	48.8%;	Pred. No. 0.55;	0; Mismatches 123;	Indels 0;	Gaps 0;	Db	253 AAAGGCGTACGAAATAATGNTCAATTAAGGCAAAATAATGCACACATAGACAC 194
Matches 117;	Conservative						
Qy	524 CAAATGCAAAATTGGTCCAAAGTGCTGCAATTGTGAAATGTCACCGATTGGCATG 583					Qy	747 ATGAAAGCTCAGCCTTGCCGAGAACGACAAAGAACGAGCCACTGTGACTCTT 799
Db	444 CGACGTCATCATGGCAATTGTTGCTGGTGTGATCCATACTCGTT 385					Db	193 GTGCAGCTTAACCCAGATCCAGAAAGATGAAGCATCGCTGTAAGACGT 141
Qy	584 GAAGTCAACCTTGGAAACATGGCTGAACTTATGGGCAATTAAATGGTACAA 643						
Db	384 GGAATTAGGCCATCAGGAGCTACAACATCAATGTTGATAAGCTGTGAAAT 325					RESULT 3	
Qy	644 GATCCACAAATTGAAAGCAAACTGTCATCTGCAAGGCAATGAGCTGAA 703					BJ328127/C	BJ328127 640 bp mRNA linear EST 05-MAR-2002
Db	324 ATTAAGAACGTCAAAGGAACTAATCTACAAATAACTACAAATAATCCAAACT 265					LOCUS	BJ328127 Dictyostelium discoideum cDNA library. AF Dicystostelium
Qy	704 TTCCCCAACAGAGCTTAAAGGACAAAAAGAAACTGTGAAAGCTAGGCTTG 763					DEFINITION	discoideum cDNA clone dda23e04 5', mRNA sequence.
Db	264 ATAACATCATATGGCTCTATAGATAAAAGCTATATTTCAGAAGTCAAATCTG 205					ACCESSION	
REF RESULT 2						VERSION	BJ328127.1 GI:19158257
H55033/C						KEYWORDS	BST.
LOCUS	H55033	323 bp	mRNA	linear	EST 27-SEP-1999	SOURCE	Dictyostelium discoideum
DEFINITION	HRU58B	Sorghum bicolor cv. TX430	sorghum bicolor	cDNA clone HRU58		ORGANISM	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; PACCAD
ACCESSION	H55033					FEATURES	
VERSION	H55033.1					source	1. bases 1 to 640
KEYWORDS	EST.					COMMENT	Urushihara, H., Tanaka, Y., Kohara, Y. and Shin-i, T.
ORGANISM	Sorghum bicolor					JOURNAL	Full length cDNA of Dictyostelium discoideum at the aggregation stage
REFERENCE	Wyrich,R., Dreszen,U., Paterson,A.H. and Westhoff,P.					CONTACT	Tadasu Shin-i
AUTHORS	Qiang,D., Paterson,A.H. and Westhoff,M., Chang,C.,					Unpublished (2002)	Center For Genetic Resource Information
TITLE	The molecular basis of C4 photosynthesis in sorghum: isolation, characterization and RFLP mapping of mesophyll- and bundle-sheath-specific cDNAs obtained by differential screening						National Institute of Genetics
JOURNAL	Plant Mol. Biol.	37 (2), 319-335 (1998)					1111 Yata, Mishima, Shizuoka 411-8540, Japan
MEDLINE	98278366						Tel: 81-559-81-6856
PUBLISHED	9617804						Fax: 81-559-81-6855
COMMENT	On Dec 10, 1997 this sequence version replaced gi:1000813.						Email: tshini@genes.nig.ac.jp.
FEATURES	Location/Qualifiers						
source	/organism="Dictyostelium discoideum"						
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	/strain="cv."						
	/db_xref="taxon:4558"						
	/clone="H55038"						
	/note="Vector: Lambda ZAP II; leaf cDNA library,						
	unidirectionally cloned"						
ORIGIN							
Query Match	Score 3.8%;	Score 43.2;	DB 7;	Length 323;		Qy	652 ATTCAA 658
Best Local Similarity	52.6%;	Pred. No. 0.48;	0; Mismatches 82;	Indels 0;	Gaps 0;	Db	35 GAGAAA 29
Matches 91;	Conservative						
Qy	627 TTAATTGATGCAAGAACATCCAAATTCAAGAACGCTACTGTGAAAGCACA 686					RESULT 4	CNS00100
Db	313 TTTTTTTGAAAGAAAATACATCACATTGAGCTAAATAATGTTATGTACATA 254					LOCUS	CNS00100 Drosophila melanogaster genome survey sequence TET3 end of BAC:
DEFINITION							

RESULT	5	DEFINITION	BJ358542	434 bp	mRNA	linear	EST 07-MAR-2002
LOCUS	DEFINITION	BJ358542	Dictyostelium discoideum	cDNA library	CP	Dictyostelium	sequence.
ACCESSION	VERSION	BJ358542	Dictyostelium discoideum	clone ddc10f01	5'	mRNA	
KEYWORDS	SOURCE	EST.	Dictyostelium discoideum				
ORGANISM	REFERENCE	AUTHORS	Dictyostelium discoideum				
JOURNAL	Urushihara,H., Tanaka,Y., Kohara,Y. and Shin-i,T.	1 to 434	Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.				
COMMENT	Urashihara,H., Tanaka,Y., Kohara,Y. and Shin-i,T.	1 to 434	Full length cDNA of Dictyostelium discoideum at the culmination stage.				
UNPUBLISHED	(2002)		Unpublished (2002).				
CONTACT	Tadasu Shin-i		Contact: Tadasu Shin-i				
GENETIC RESOURCE INFORMATION	Center For Genetic Resource Information		Center For Genetic Resource Information				
NATIONAL INSTITUTE OF GENETICS	National Institute of Genetics		National Institute of Genetics				
ADDRESS	1111 Yata, Mishima, Shizuoka 411-8540, Japan		1111 Yata, Mishima, Shizuoka 411-8540, Japan				
TEL	81-559-81-6856		81-559-81-6856				
FAX	81-559-81-6855		81-559-81-6855				
EMAIL	tshini@genes.nig.ac.jp.		Email: tshini@genes.nig.ac.jp.				
FEATURES	Location/Qualifiers		Location/Qualifiers				
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	/sex="mat A"		/dev_stage="Culmination stage"				
	/clone_lib="Dictyostelium discoideum cDNA library, CF"		/clone_lib="Dictyostelium discoideum cDNA library, CF"				
ORIGIN							
Query Match	3 / 7%		Score 42.2 ; DB 4 ; Length 434 ;				
Best Local Similarity	48.2%		Pred. No. 0.91 ;				
Matches	119 ; Conservative		Indels 0 ; Gaps 0 ;				
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DB	389 AACAAAACAGCTGTTAACAAATGATTGTTGATTACTGGACCTGCAATTACCGATTA		330				
QY	472 TTTCGGGACCAAGACCTAATCAGAAGGAACTGTTAAGTCATAAGTTGACCAACTGTTACGAAATTAC		531				
DB	329 AGATTTGGATCAAACAACTGCTTAAGTCATAAGTTGACCAACTGTTACGAAATTAC		270				
QY	532 ACAATTGGCTCCAAGTGCCCTGCAATTCTTGGAAATGTCAGCATGGCATGGAACTGC		591				
DB	269 CAAATTGGACCTGGAAATCATTGGAAATTACAATACTAACTTCAATCTGAATGGAA		210				
QY	592 ACCTTGGGACATGGTGAATTCTATGGGGCATTAATGGATGACAAAGATCACA		651				
DB	209 ACCCTGGTGAACCACCTGATGACCATCTACCATTTGAATGGTTCTAACGTTTCCAAA		150				
QY	652 ATTCAA 658						
DB	149 GAGGAA 143						
RESULT	6						
LOCUS	BF598760		518 bp				
DEFINITION	sv21d10.y1		mRNA				
ID:	Gm-c1057-187		linear				
ACCESSION	BF598760		Glycine soja				
VERSION	BF598760.1		cDNA clone				
KEYWORDS	EST.		GENOME SYSTEMS CLONE				
SOURCE	Glycine soja						
ORGANISM	Eukaryote; Viridiplantae; Streptophyta; Embryophyta; Magnoliophyta; eu dicots; core eudicots;						

REFERENCE		ORGANISM	Dictyostelium discoideum
AUTHORS	Eukaryota; Mycetozoa; Dictyosteliida; Phaeoileae; Glycine.	REFERENCE	Eukaryota; Mycetozoa; Dictyosteliida; Phaeoileae; Glycine.
	1 ('bases 1 to 518')	AUTHORS	Urushihara, H., Tanaka, Y., Kohara, Y. and Shin-i, T.
		TITLE	Full length cDNA of Dictyostelium discoideum at the culmination stage
		JOURNAL	Unpublished (2002)
COMMENT		COMMENT	Contact : Tadasu Shin-i Center For Genetic Resource Information National Institute of Genetics 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6556 Fax: 81-559-81-6555 Email: tshini@genes.nig.ac.jp.
TITLE	Public Soybean EST Project	FEATURES	Location/Qualifiers
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	Washington University School of Medicine 4444 Forest Park Parkway, Box 8501, St. Louis, MO 63108, USA Tel: 314 286 1800 Fax: 314 286 1810 Email: est@watson.wustl.edu	Qy	412 AAAACGCTACAGCCTACTAGCTTGGAGAGTCAGAACAAACCCAAAGAAA 471
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		AUTHORS	(bases 1 to 556)
		TITLE	Urushihara, H., Tanaka, Y., Kohara, Y. and Shin-i, T.
		JOURNAL	Unpublished (2002)
		COMMENT	Contact : Tadasu Shin-i Center For Genetic Resource Information National Institute of Genetics 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6856 Fax: 81-559-81-6855
RESULT 7		ORIGIN	Query Match 3 - 7% ; Score 42 - 2 ; DB 2 ; Length 518; Best Local Similarity 54.1% ; Pred. No. 0. 96 ; Matches 86 ; Conservative 0 ; Mismatches 73 ; Indels 0 ; Gaps 0 ;
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DEFINITION	mRNA linear	AUTHORS	Urushihara, H., Tanaka, Y., Kohara, Y. and Shin-i, T.
ACCESSION	BJ362480	TITLE	Full length cDNA of Dictyostelium discoideum at the culmination stage
KEYWORDS	EST.	JOURNAL	Unpublished (2002)
SOURCE	Dictyostelium discoideum	COMMENT	Contact : Tadasu Shin-i Center For Genetic Resource Information National Institute of Genetics 1111 Yata, Mishima, Shizuoka 411-8540, Japan Tel: 81-559-81-6856 Fax: 81-559-81-6855

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ORGANISM	Eukaryota; Mycetozoa; Dictyosteliida; Dictyostelium.	
REFERENCE	1 (bases 1 to 601)	
AUTHORS	Urushihara,H., Tanaka,Y., Kohara,Y, and Shin-i,T.	
TITLE	Full length cDNA of Dictyostelium discoideum at the aggregation stage	

JOURNAL Unpublished (2002)

COMMENT Contact: Tadasu Shin-i
 Center For Genetic Resource Information
 National Institute Of Genetics
 1111 Yata, Mishima, Shizuoka 411-8540, Japan

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TITLE	Full length cDNA of Dictyostelium discoideum at the aggregation stage						
JOURNAL	Unpublished (2002)						
COMMENT	Contact : Tadasu Shin-i						
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	1111 Yata, Mishima, Shizuoka 411-8540, Japan						
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OM nucleic - nucleic search, using sw model

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Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing First 45 summaries

Database : GenEmbl:*

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2: gb_htg:*
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5: gb_ov:*
6: gb_Pat:*
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9: gb_Pr:*
10: gb_ro:*
11: gb_sts:*
12: gb_sy:*
13: gb_un:*
14: gb_vl:*

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	DB	ID	Description
1		1669	14	AY536760			AY536760 SARS coro
2		21	100.0	1873	14	AY53475654	AY53475654 SARS coro
3		21	100.0	1938	14	AY53476556	AY53476556 SARS coro
4		21	100.0	2304	14	AY22220554	AY22220554 SARS coro
5		21	100.0	2810	14	AY290752	AY290752 SARS coro
6		21	100.0	8439	14	AY304489	AY304489 SARS coro
7		21	100.0	8581	14	AY204487	AY204487 SARS coro
8		21	100.0	11006	14	AY044491	AY044491 SARS coro
9		21	100.0	11010	14	AY204493	AY204493 SARS coro
10		21	100.0	11010	14	AY204494	AY204494 SARS coro
11		21	100.0	13471	14	AY044490	AY044490 SARS coro
12		21	100.0	13471	14	AY304492	AY304492 SARS coro
13		21	100.0	29013	14	AY463060	AY463060 SARS coro
14		21	100.0	29350	14	AY394999	AY394999 SARS coro
15		21	100.0	29350	14	AY395000	AY395000 SARS coro
16		21	100.0	29350	14	AY395001	AY395001 SARS coro
17		21	100.0	29350	14	AY395002	AY395002 SARS coro
18		21	100.0	29433	14	AY394977	AY394977 SARS coro
19		21	100.0	29530	14	AY394985	AY394985 SARS coro

ALIGNMENTS

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RESULT 1
AY536760

LOCUS          AY536760
DEFINITION    SARS coronavirus BJ01 nucleocapsid protein mRNA, complete cds.
ACCESSION     AY536760
VERSION       AY536760.3  GI:52100973

KEYWORDS      SARS coronavirus BJ01
ORGANISM      SARS coronavirus BJ01
VIRUSES       ssRNA positive-strand viruses, no DNA stage; Nidovirales;
               Coronaviridae; Coronavirus.

REFERENCE    1 (bases 1 to 1669)
AUTHORS      Li,T., Li,X., Chang,Z. and Liu,L.
TITLE        Identification of SARS-CoV mRNA leader sequence
JOURNAL      Unpublished
PUBLISHER    2 (bases 1 to 1669)
PAPERID      Li,T., Li,X., Liu,L. and Chang,Z.
PUBMED      Direct Submission
PUBTYPE      Direct Submission
SUBMITTER    (30-JAN-2004) Institute of Biomedicine, Tsinghua University, Beijing, China
PUBSTATUS    Sequence update by submitter
PUBSOURCE    3 (bases 1 to 1669)
PUBTYPE      Li,T., Li,X., Liu,L. and Chang,Z.
PUBSOURCE    Direct Submission
PUBSTATUS    (06-JUL-2004) Institute of Biomedicine, Tsinghua University, Beijing, China
PUBSOURCE    Sequence update by submitter
PUBSTATUS    On Sep 15, 2004 this sequence version replaced gi:49921010.
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PUBTYPE      /organism="SARS coronavirus BJ01"
PUBTYPE      /mol_type="mRNA"
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ORIGIN Query Match 100.0%; Score 21; DB 14; Length 2304;
Best Local Similarity 100.0%; Pred. No. 0.63; Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Db 2033 ATGACCAACAAAGCAGATGG 2053

RESULT 5 AY290752 2810 bp RNA linear VRL 09-FEB-2004
LCUS DEFINITION SARS coronavirus ZJ01 isolate ZJ01b uncharacterized protein 6,
uncharacterized protein 7a, uncharacterized protein 7b,
uncharacterized protein 8a, uncharacterized protein 8b,
nucleocapsid protein, uncharacterized protein 9b, and
uncharacterized protein 9c genes, complete cds.

ACCESSION AY290752
VERSION 2
SOURCE GI:38705509
ORGANISM SARS coronavirus ZJ01

Viruses; ssRNA positive-strand viruses, no DNA stage; Nidovirales;
Coronaviridae; Coronaviruses.
1 (bases 1 to 2810)

REFERENCE Li,L., Wang,Y., Bao,Q., Chen,S., Wu,N., Cheng,S., Weng,J.,
Zhang,Y., Yan,J., Mei,L., Wang,X., Zhu,H., Yu,Y., Zhang,M., Li,M.,
Yao,J., Lu,Q., Yao,P., Bo,X., Wo,J., Wang,S. and Hu,S.

TITLE Severe acute respiratory syndrome-associated coronavirus genotype
and its characterization
Chin.Med.J. 116 (9), 1288-1292 (2003)

JOURNAL Chin.Med.J. 117 (1), 42-48 (2004)
MEDLINE 14733771
PUBMED 14527350
REFERENCE 2 (bases 1 to 2810)
AUTHORS Wang,Z.G., Li,L.J., Luo,Y., Zhang,J.Y., Wang,M.Y., Cheng,S.Y.,
Zhang,Y.J., Wang,X.M., Lu,Y.Y., Wu,N.P., Mei,L.L., and Wang,Z.X.
TITLE Molecular biological analysis of genotyping and phylogeny of severe
acute respiratory syndrome associated coronavirus
JOURNAL Chin.Med.J. 117 (1), 42-48 (2004)
PUBLISHED 3 (bases 1 to 2810)
REFERENCE Wang,Z., Cheng,S., Zhang,Y., Lu,Y. and Mei,L.
AUTHORS Direct Submission
TITLE Submitted (03-MAY-2003) Department of Microbiology, Zhejiang Center
JOURNAL

" of Disease Prevention and Control, 17 Laozheda Rd., Hangzhou,
Zhejiang 310009, China
4 (bases 1 to 2810)
REFERENCE Wang,Z., Cheng,S., Zhang,Y., Lu,Y. and Mei,L.
AUTHORS Direct Submission
TITLE Submitted (05-DEC-2003) Department of Microbiology, Zhejiang Center
of Disease Prevention and Control, 17 Laozheda Rd., Hangzhou,
Zhejiang 310009, China
REMARK Nucleotide and amino acid sequences updated by submitter
COMMENT On Dec 5, 2003 this sequence version replaced gi:31505969.
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726. .860
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FEATURES		University Pathology Building, Queen Mary Hospital, Pokfulam Road, Hong Kong, China	Location/Qualifiers	
source	1. .11006 /organism="SARS coronavirus HKU-66078" /mol_type="genomic RNA" /isolate="S2260" /db_xref="231518" /country="Hong Kong"			
ORIGIN				
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Qy	1 ATGACCACAAAGCCAGATGG 21			
Db	10659 ATGACCACAAAGCCAGATGG 10689			
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LOCUS	SARS coronavirus HKU-65806, partial Genome.			
DEFINITION	SARS coronavirus HKU-65806, partial Genome.			
VERSION	AY304493			
KEYWORDS	GI:34482144			
SOURCE				
ORGANISM	SARS coronavirus HKU-65806			
	Viruses; ssRNA positive-strand viruses, no DNA stage; Nidovirales; Coronaviridae; Coronavirus.			
REFERENCE	1 (bases 1 to 11010)			
AUTHORS	Guan,Y., Zheng,B.J., He,Y.Q., Liu,X.L., Zhuang,Z.X., Cheung,C.L., Luo,S.W., Li,P.H., Zhang,L.J., Guan,Y.J., Burt,K.M., Wong,K.L., Chan,K.W., Lim,W., Shortridge,K.F., Yuen,K.Y., Peiris,J.S.M. and Poon,L.L.M.			
TITLE	Isolation and characterization of viruses related to the SARS coronaviruses from animals in southern China			
JOURNAL	Science 302 (5643), 276-278 (2003)			
MEDLINE	22913660			
PUBMED	12953366			
REFERENCE	2 (bases 1 to 11010)			
AUTHORS	Guan,Y. and Zheng,B.J.			
TITLE	Direct Submission			
JOURNAL	Submitted (27-MAY-2003) Microbiology, The University of Hong Kong, Hong Kong, China			
FEATURES				
source	1. .11010 /organism="SARS coronavirus HKU-65806" /mol_type="genomic RNA" /isolate="HKU-65806" /db_xref="231518" /country="Hong Kong"			
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LCUS	SARS coronavirus HKU-66078, partial Genome.			
DEFINITION	SARS coronavirus HKU-66078, partial Genome.			
VERSION	AY304494			
KEYWORDS	GI:34482145			
SOURCE	SARS coronavirus HKU-66078			
ORGANISM	SARS coronavirus HKU-66078			
	Viruses; ssRNA positive-strand viruses, no DNA stage; Nidovirales; Coronaviridae; Coronavirus.			
REFERENCE	1 (bases 1 to 13471)			
AUTHORS	Guan,Y., Zheng,B.J., He,Y.Q., Liu,X.L., Zhuang,Z.X., Cheung,C.L., Luo,S.W., Li,P.H., Zhang,L.J., Guan,Y.J., Burt,K.M., Wong,K.L., Chan,K.W., Lim,W., Shortridge,K.F., Yuen,K.Y., Peiris,J.S.M. and Poon,L.L.M.			
TITLE	Isolation and characterization of viruses related to the SARS coronaviruses from animals in southern China			
JOURNAL	Science 302 (5643), 276-278 (2003)			
MEDLINE	22913660			
PUBMED	12953366			
REFERENCE	2 (bases 1 to 13471)			
AUTHORS	Guan,Y. and Zheng,B.J.			
TITLE	Direct Submission			
JOURNAL	Submitted (27-MAY-2003) Microbiology, The University of Hong Kong, Hong Kong, China			
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SARS coronavirus LC2, complete genome.	AY194999	29350 bp	RNA			SARS coronavirus LC2										
SARS coronavirus LC2	AY239499					SARS coronavirus LC2										
Viruses ssRNA positive-strand viruses no DNA stage; Nidovirales; Coronaviridae; Coronavirus.	AY239499.1	GI:37644342				Viruses ssRNA positive-strand viruses no DNA stage; Nidovirales; Coronaviridae; Coronavirus.										
RESULTS 1 to 1 (bases 1 to 29350)						RESULTS 1 to 1 (bases 1 to 29350)										
CONTRIBUTORS						CONTRIBUTORS										
REFERENCES						REFERENCES										
AUTHORS						AUTHORS										

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ORIGIN
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Qy   1 ATGACCACACAGGCCAGTGG 21
Db   28997 ATGACCACACAGGCCAGTGG 29017

RESULT 15
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LOCUS             SARS coronavirus LC3, complete genome.
DEFINITION        SARS coronavirus LC3, complete genome.
ACCESSION         AY295000
VERSION          AY295000.1  GI:37624343
KEYWORDS          SARS coronavirus LC3
SOURCE            SARS coronavirus LC3
ORGANISM          SARS coronavirus LC3
Viruses; ssRNA positive-strand viruses, no DNA stage; Nidovirales;
Coronaviridae; Coronavirus.
REFERENCE         1 (bases 1 to 29350)
AUTHORS           CONSRM
TITLE             The SARS epidemiology consortium of Guangdong
From independent foci of epidemic outbreak to large genomic
alteration in late phase viruses: evolution of the SARS-coronavirus
JOURNAL           Unpublished
REFERENCE         2 (bases 1 to 29350)
AUTHORS           CONSRM
TITLE             The SARS epidemiology consortium of Guangdong
JOURNAL           Direct Submission
FEATURES          Submitted (19-SEP-2003) Guangdong, China
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Db   28997 ATGACCACACAGGCCAGTGG 29017

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Search completed: May 15, 2005, 12:53:28
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